DOCUMENT RESUME

ED 459 639 HE 034 527

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TITLE Doctorate Recipients from United States Universities: Summary Report 2000. Survey of Earned Doctorates.

INSTITUTION National Opinion Research Center, Chicago, IL.

SPONS AGENCY National Endowment for the Humanities (NFAH), Washington, DC.; Department of Education, Washington, DC.; Department of Agriculture, Washington, DC.; National Science Foundation, Arlington, VA.; National Institutes of Health (DHHS), Bethesda, MD.; National Aeronautics and Space Administration, Washington, DC.

PUB DATE 2001-00-00

NOTE 141p.; For the 1998 report, see ED 451 805.

CONTRACT SRS-9712655

AVAILABLE FROM For full text: http://www.norc.uchicago.edu/issues/docdata.htm.

PUB TYPE Numerical/Quantitative Data (110) -- Reports - Descriptive (141) -- Tests/Questionnaires (160)

EDRS PRICE MF01/PC06 Plus Postage.

DESCRIPTORS *Doctoral Degrees; Educational Trends; Ethnicity; *Graduate Students; Graduate Study; Higher Education; *Racial Differences; Tables (Data); Trend Analysis

ABSTRACT

This report presents data on recipients of research doctorates awarded by U.S. universities from July 1, 1999 through June 30, 2000. The information is taken from the Survey of Earned Doctorates, an annual census of new doctoral recipients. The 406 universities in the United States that confer research doctorates awarded a total of 41,368 doctorates in the 1999-2000 academic year. This is an increase of 0.8% over the previous year, marking the seventh year that the total number of new research doctorates has exceeded 41,000. The greatest number of research doctorates were awarded in the life sciences, 8,529 Ph.D.s. Other broad areas were the social sciences, education, the physical sciences and mathematics, the humanities, engineering, and business and other professional fields. Women received 43.8% of all doctorates granted in 2000, the highest percentage ever. More than 16% of all doctorates awarded to U.S. citizens in 2000 were earned by members of racial and ethnic minority groups. U.S. citizens received 70.6% of all doctorates earned in 2000. The median time to degree since receipt of the baccalaureate was 10.3 years in 2000, slightly down from 1999. Most doctoral recipients in 2000 received the majority of their financial support for graduate education from program- or institution-based sources such as fellowships or teaching and research assistantships. About one-half of new Ph.D.s reported no educational indebtedness at the completion of the degree; about 71% had definite postgraduate commitments for employment or continued study. Five appendixes contain the survey questionnaire, basic and trend tables, and technical notes. (Contains 12 figures and 41 tables.) (SLD)

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Doctorate Recipients from United States Universities:

Summary Report 2000

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Survey of Earned Doctorates

SPONSORED BY THE NATIONAL SCIENCE FOUNDATION, THE NATIONAL INSTITUTES OF HEALTH, THE U.S. DEPARTMENT OF EDUCATION, THE NATIONAL ENDOWMENT FOR THE HUMANITIES, THE U.S. DEPARTMENT OF AGRICULTURE, AND THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

HE 020 453

HIGHLIGHTS

This report presents data on recipients of research doctorates awarded by U.S. universities from July 1, 1999, through June 30, 2000. This information is taken from the 2000 Survey of Earned Doctorates (SED), an annual census of new doctorate recipients.

- The 406 universities in the United States conferring research doctorates during the 1999-2000 academic year (the eligibility period for the 2000 SED) awarded a total of 41,368 doctorates. This compares to 41,060 doctorates awarded in 1999 (an increase of 0.8 percent), and marks the seventh consecutive year that the total number of new research doctorates has exceeded 41,000.

- The number of doctorates awarded in 2000 was greatest in the life sciences, which conferred 8,529 Ph.D.s. The numbers in the other broad areas were 7,115 in social sciences; 6,420 in education; 6,077 in the physical sciences and mathematics (combined); 5,634 in the humanities; 5,330 in engineering; and 2,263 in business and other professional fields.

- Women received a total of 18,121 doctorates, or 43.8 percent of all doctorates granted in 2000. This is the highest percentage ever for women, continuing a 30-year upward trend. The proportions of doctorates earned by women in each of the broad fields of study increased to all-time highs. Women earned 46.9 percent of the doctorates granted in life sciences, 54.6 percent in social sciences, 50.3 percent in humanities, 64.9 percent in education, and 41.8 percent in business/other professional fields. In the physical sciences and engineering, they constituted 24.2 percent and 15.8 percent, respectively.

- Over 16 percent of all doctorates awarded to U.S. citizens in 2000 were earned by U.S. racial/ethnic minority groups. This is the largest percentage ever, and continues a steady upward trend. Among the 27,300 doctorates earned in 2000 by U.S. citizens who identified their race/ethnicity (97.9 percent of all U.S. citizen doctorates), 1,656 doctorates were earned by blacks, 1,157 were earned by Hispanics, 1,407 were earned by Asians, and 169 were earned by American Indians. The broad fields with the largest percentages of minorities were education, in which blacks were the predominant minority group, and engineering, in which Asians were predominant.

- Of the individuals who reported their citizenship status (95.4 percent of all doctorate recipients), U.S. citizens received 70.6 percent of all doctorates earned in 2000. One half (49.4 percent) of the doctorates earned by U.S. citizens were awarded to women. The percentage of doctorates earned by U.S. citizens ranged from the lows of 44.1 percent in engineering and 56.2 percent in the physical sciences, to the highs of 89.3 percent in education and 81.7 percent in the humanities.

- A total of 11,597 doctorates (29.4 percent) were earned by non-U.S. citizens. The largest number of non-U.S. citizen doctorate recipients were from the People's Republic of China (2,594), followed by Korea with 1,048, India with 985, Taiwan with 936, and Canada with 514.

- Median time to degree since receipt of the baccalaureate was 10.3 years in 2000, slightly down from 1999 (10.4 years), 1998 (10.4 years), and 1997 (10.5 years). Median time to degree since first enrollment in any graduate program was 7.4 years in 2000, also slightly lower than 1999, 1998, and 1997 (7.3 years in all three years).

- Most of the 2000 doctorate recipients (61.1 percent) received the majority of their financial support for graduate education from such program- or institution-based sources as university fellowships or teaching and research assistantships. One-half (49.3 percent) of the 2000 doctorate recipients reported no educational indebtedness at completion of the Ph.D.; 15.1 percent reported cumulative education debt levels of $30,000 or more.

- About 71 percent of the new Ph.D.s had definite postgraduation commitments for employment or continued study when they completed the SED questionnaire. Of those, 71.3 percent will work and 28.7 percent will continue their studies as postdoctorates. For U.S. citizens, 52.1 percent of those with firm employment commitments noted higher education as their intended work sector. About one-fifth (19.9 percent) indicated industry or self-employment; 8.6 percent said some level of government; the remaining 19.4 percent indicated various other types of employment.

Information on Standard Survey of Earned Doctorates Products

- **Issue Briefs and Reports**

Federal sponsors of the Survey of Earned Doctorates (SED) issue short reports, based on SED data, highlighting issues and trends in doctoral education. These are distributed free through the National Science Foundation's World Wide Web site (see below) or on request from the agencies.

- **Science and Engineering Doctorate Awards: 2000 (http://www.nsf.gov/sbe/srs/sengdr/start.htm)**

The data presented in this report show trends in doctorate awards by science and engineering (S&E) field and recipient characteristics, institutions awarding doctorates, and postgraduate plans of recipients. These tables present detailed data on S&E doctorate recipients, with some totals provided for broad non-S&E fields. These data are available in printed form from NSF by e-mailing Susan Hill, Director, Doctorate Data Project, at sthill@nsf.gov.

- **Annual Summary Report Early Release Tables on NORC Web site (http://www.norc.uchicago.edu/issues/docdata.htm)**

A standard set of tables reporting SED data appears in Appendices A and B in the Summary Report. These tables are posted on the National Science Foundation's World Wide Web site or are available on request from the National Opinion Research Center (NORC). Early release tables are distributed before the Summary Report is printed.

- **Doctorate Recipients from United States Universities: Summary Report 2000**

Data on doctorates are reported annually by academic year (from July 1 of one year to June 30 of the following year) and include research and applied research doctorates in all fields. Doctoral degrees such as Ph.D., D.Sc., and Ed.D. are covered by this survey. Professional degrees (e.g., M.D., D.D.S., J.D., Psy.D.) are not. A hard copy Summary Report is available free on request from the National Opinion Research Center, and a PDF version is available on the NORC's Web site provided above.

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Doctorate Recipients from United States Universities: Summary Report 2000

The Survey of Earned Doctorates is funded by and conducted under the direction of the following agencies of the U.S. government:

National Science Foundation
National Institutes of Health
U.S. Department of Education
National Endowment for the Humanities
U.S. Department of Agriculture
National Aeronautics and Space Administration

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National Opinion Research Center
Chicago, Illinois
2001

NOTICE

This report is based on data collected in the Survey of Earned Doctorates (SED) conducted for the National Science Foundation (NSF), the National Institutes of Health (NIH), the U.S. Department of Education (USED), the National Endowment for the Humanities (NEH), the U.S. Department of Agriculture (USDA), and the National Aeronautics and Space Administration (NASA), by National Opinion Research Center (NORC) under NSF Contract No. SRS-9712655. Findings in this publication represent analyses developed by NORC, and do not necessarily reflect the views of the sponsoring agencies.

NSF publications from the Survey of Earned Doctorates and the Doctorate Records File are available free on request (see inside back cover). Standardized tables on baccalaureate origins of Ph.D.s by major field of doctorate and trend tables on citizenship, race/ethnicity, and sex of Ph.D.s by fine field of doctorate are available for a fee. Customized tables can also be prepared at cost. For more information, please contact:

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Recommended citation:

Hoffer, T., B. Dugoni, A. Sanderson, S. Sederstrom, R. Ghadialy, and P. Rocque. 2001. *Doctorate Recipients from United States Universities: Summary Report 2000.* Chicago: National Opinion Research Center. (The report gives the results of data collected in the Survey of Earned Doctorates, conducted for six Federal agencies, NSF, NIH, USED, NEH, USDA, and NASA by NORC.)

This report is available on the NORC web-site: http://www.norc.uchicago.edu/issues/docdata.htm. Reports on science and engineering doctorates can be found on the National Science Foundation's web-site:
http://www.nsf.gov/sbe/srs/sengdr/start.htm.

ACKNOWLEDGMENTS

Academic officers at the nation's doctorate-granting universities distribute, collect, and forward SED questionnaires to NORC. The project gratefully acknowledges the support and assistance of graduate deans and their staff, registrars, dissertation secretaries, and other administrators who participate in the SED effort and contribute to its success. The sponsoring Federal agencies and NORC also extend their heartfelt thanks to the over 38,000 new research doctorate recipients who took the time to complete and return their copy of the academic year 2000 SED survey.

The conduct of the SED, the maintenance of the resulting data file, and the publication of this report are funded jointly by the National Science Foundation (NSF), the National Institutes of Health (NIH), the U.S. Department of Education (USED), the National Endowment for the Humanities (NEH), the U.S. Department of Agriculture (USDA), and the National Aeronautics and Space Administration (NASA). Susan Hill (NSF) serves as the project officer for the six participating agencies. The survey's relevance to national policy issues has increased, thanks to the involvement and constructive reviews of the design and analysis of the survey by representatives from the six agencies: Walter Schaffer (NIH), Nancy Borkow (USED), Frank Shaw (NEH), K. Jane Coulter (USDA), Malcom Phelps (NASA), and Mary Golladay (NSF). Comments from reviewers Peter Syverson of the Council of Graduate Schools, Judi Sui of the University of California-Berkeley, and Jed Marsh of Northwestern University were invaluable and greatly appreciated.

Isabel Guzman-Barron, Administrative Assistant, continued to provide expert assistance with table production, graphics, and text formatting on this *Summary Report*. The authors also gratefully acknowledge the contributions of their NORC colleagues who provided valuable counsel, direction, and assistance with various survey responsibilities over the past year: Bronwyn Nichols and Sharon Myers, Associate Project Directors; Lance Selfa, Research Analyst; Syed Ahsan, Programming Manager; Jie Yin, Senior Programmer; Shamia Bullock, Coordinator for the Data Preparation Center; Jamie Friedman, Director of Institutional Contacting; Crystal Williams, Data Preparation Supervisor, and the Production Center Staff; and Imelda Perez of the Communications Department.

Printed in the United States of America

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***** IMPORTANT NOTICE *****

The estimates reported for the Survey of Earned Doctorates (SED) are simple tabulations of all available information, with no adjustment for nonresponse. Therefore, differences in response rates from year to year can produce numerical fluctuations that may not be related to real trends.

Although response to the SED has been as high as 95 to 98 percent over time, it declined to 92 percent during the 1980s. In an effort to improve the response rate, the survey methodology was modified in the years after 1989. Response rose, stabilizing around 95 percent from 1991 to 1995. The rates have declined somewhat since then, to 92.8 percent in 1996; 91.4 percent in 1997; and 91.9 percent in 1998, 1999, and 2000. See appendix C for a table giving survey response rates from 1967 to 2000. (*Note:* These percentages represent *self-report rates,* that is, the proportion of questionnaires completed by research doctorate recipients. While survey forms containing partial information filled in by either the doctoral institution or the survey contractor are not included in these rates, tables in this report incorporate the available data from these sources.)

Item response rates have shown a pattern of improvement since 1990—a natural consequence of the increase in the overall self-report rate, as well as a result of format revisions to the questionnaire and follow-ups for missing information. In 1990, new follow-up procedures were implemented to increase coverage of several variables: birth year, sex, race/ethnicity, citizenship status, country of citizenship, baccalaureate year and institution, and postgraduation plans. Response rates for these variables have since improved—especially for citizenship and race/ethnicity, resulting in an increase in the reported numbers of minority Ph.D.s. Whether or not individuals completed the survey questionnaire, the following four data items are available for most all recipients: sex, Ph.D. institution, Ph.D. field of specialization, and Ph.D. year.

The data for a given year are updated the following year with any responses received *after* survey closure. Postsurvey adjustment was most significant for 1990 and 1991 Ph.D.s, with the largest impact on the number of blacks. For both of these years, the total number of black Ph.D.s increased by about 7.5 percent in the year after survey closure. The survey cycle was then extended to allow receipt of more follow-up information before closure; resulting in much smaller postsurvey adjustments after 1991. But some completed questionnaires and revised information on doctorate recipients typically are still received after the annual closure deadline, and universe counts and item response rates change accordingly. Adjustments to data are presented in reports subsequent to the initial report for a survey. For example, updates for 1999 appear in *Summary Report 2000.* Updates to 2000 data will be presented in next year's report.

DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES: SUMMARY REPORT 2000

Introduction

Doctorate Recipients from United States Universities: Summary Report 2000 is the thirty-fourth in a series of reports on research doctorates awarded by colleges and universities in the United States.[1] The data presented in this report are from the annual Survey of Earned Doctorates (SED), a census of research doctorate recipients who earned their degrees between July 1, 1999, and June 30, 2000. This survey, conducted since 1958, is sponsored by six Federal agencies: the National Science Foundation, the National Institutes of Health, the U.S. Department of Education, the National Endowment for the Humanities, the U.S. Department of Agriculture, and the National Aeronautics and Space Administration. All survey responses become part of the Doctorate Records File (DRF), a virtually complete database on research doctorate recipients from 1920 to 2000. The overall response rate for the 2000 survey was 92 percent.[2]

Organization

Summary Report 2000 begins by reviewing overall trends in research doctorates awarded by U.S. universities and continues by discussing trends in the seven broad fields in which research doctorate recipients earn their degrees. Trends in doctorate awards by sex, race/ethnicity, citizenship, parental education, and time to degree are also described. The report concludes with a discussion of the sources of financial support during graduate school, and the postgraduation status and plans of doctorate recipients.

Figures displaying selected trend data accompany the brief narratives of key survey findings. The numbers and percentages from which the figures are drawn are contained in a set of tables following the main text. A reference at the bottom of each figure indicates the

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[1] The Survey of Earned Doctorates collects information on *research* doctorate recipients only. This survey differs from the U.S. Department of Education's collection of the number of doctoral degrees awarded per institution for all fields. For an evaluation of the differences, see National Science Foundation, 1993, *Science and Engineering Doctorates 1960-1991*, NSF 93-301, Detailed Statistical Tables, pp. 2-6, Washington, DC.

[2] See appendix C for information on response rates for the SED.

corresponding table number. Basic tables of statistics for the 2000 research doctorate recipients are shown in appendix A, and trend tabulations for the previous ten-year period (1990 to 2000) are presented in appendix B. Appendix C provides technical notes, including response rates, and other information related to tables and figures in the report. Appendix D is the SED questionnaire for the 2000 academic year. Appendix E lists field of study classifications and research degree titles included in the SED.

Related Publications

The methodology of the SED 2000 survey is described in detail in the annual *Survey of Earned Doctorates Quality Profile Report: 2000.* This report is posted on the National Science Foundation, Division of Science Resources Statistics (SRS) web site (http://www.nsf.gov/sbe/srs/ssed/sedmeth.htm). The NSF also publishes an annual volume of tabulations using the SED data, *Science and Engineering Doctorate Awards: 2000* that is available from NSF-SRS in printed form or on the NSF-SRS web site. Copies of the annual *Summary Report* from previous years are available on both the NSF-SRS web site and the NORC web site (http://www.norc.uchicago.edu/issues/docdata.htm).

Trends in Doctorate Recipients

The primary respondents to the Survey of Earned Doctorates are the actual research doctorate recipients[3] from all U.S. universities. These individuals are identified each year by the universities and the information is transmitted to the SED data collection contractor (NORC at the University of Chicago has been the contractor since 1997). The lists of new doctorate recipients are carefully checked and edited by the data collection contractor working closely with the universities over the course of the SED eligibility year, and for a period of several months after the end of the eligibility period. The result of this process is a remarkably comprehensive picture of the universe of new doctorate recipients each year. Thus, these data provide a solid basis for charting trends in the numbers and characteristics of this important population.

Overall Trends and Rates of Change

For the twelve-month period ending June 30, 2000, U.S. universities awarded 41,368 research doctorate degrees, compared with 41,060 for the previous year (see table 1). This was a percentage increase from 1999 to 2000 of 0.8 percent. For the last 40 years, the increase in the number of doctorates awarded by U.S. universities has averaged 3.8 percent per year.

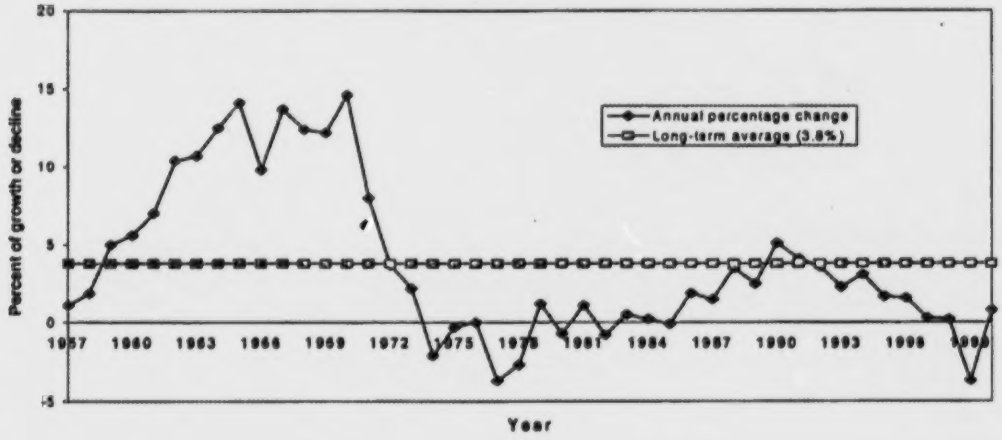
Between 1961 – when the number of annual doctorates awarded exceeded 10,000 for the first time – and 1967, the annual growth rate was almost 12 percent, and the number of doctorates awarded virtually doubled (20,403). Only four years later, in 1971, the annual total topped 30,000 (31,867) for the first time. The number of doctorate degrees annually awarded during the decades of the 1970s and 1980s remained fairly stable at about 30,000 degrees awarded each year. In 1986 a second period of growth began that continued through the early 1990s. The total figure did not exceed 40,000 until 1994 (41,034), 23 years after it had reached the 30,000 mark. Over the past few years, the annual rates of increase have become smaller than they were in the first half of the decade of the 1990s, including gains of only 0.3 percent for 1997

[3] Doctorates are reported by academic year (from July 1 of one year through June 30 of the following year) and include *research doctorates* in all fields. Doctoral degrees such as the Ph.D., D.Sc., and research Ed.D. are covered by this survey; professional degrees (e.g., M.D., D.D.S., J.D., Psy.D.) are not. A full list of included degrees can be found in appendix E. For convenience throughout this report, the terms "Ph.D." or "doctorate" are used to represent any of the research doctoral degrees covered by the survey. Please note that if an individual earned a second research doctorate, the second doctorate is not included in the SED.

and 0.2 for 1998. The total number of doctorates declined in 1999 from the previous year for the first time in fourteen years. The total rebounded somewhat in 2000, but was still at about the level of 1994. (See figures 1 and 2.)

Figure 1. Doctorates awarded by U.S. colleges and universities, 1957-2000

Figure 2. Annual growth or decline in doctorates awarded by U.S. colleges and universities, 1957-2000



See Table 1.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Doctorate-granting Institutions, Doctorate Recipients per Institution, and Geographical Distribution

The SED closely monitors the universe of doctorate-granting institutions and makes a strong effort to include all accredited institutions recognized by the U.S. Department of Education. Newly-identified institutions granting one or more of the doctorates listed in appendix E are contacted by the SED data collection contractor and included in the SED universe as soon as they award a recognized research doctorate. The full list of institutions granting doctorates in the 2000 academic year is included in appendix table A-7.

During the 2000 academic year, 406 universities in the United States and Puerto Rico awarded at least one research doctorate. This number is the highest number of institutions ever recorded in the SED, and reflects a trend of fairly steady increases in the number of doctorate-granting institutions from the early 1960s (175 in 1962). (See table 2.)

The mean number of doctorates awarded per institution in 2000 was 102; the median was 40.5. (See table 2 for the mean and median numbers of doctorates awarded per institution from 1962 to 2000.) As the substantial difference between the mean and the median suggests, a relatively small number of institutions grant a disproportionately large number of doctorates. Just 48 institutions granted 50 percent of all doctoral degrees in 2000. Eighteen institutions accounted for 25 percent of all doctorate degrees granted; the second quartile contained 30 institutions, the third quartile included 55 universities; and the remaining 303 institutions together accounted for the final 25 percent of doctorates.[4]

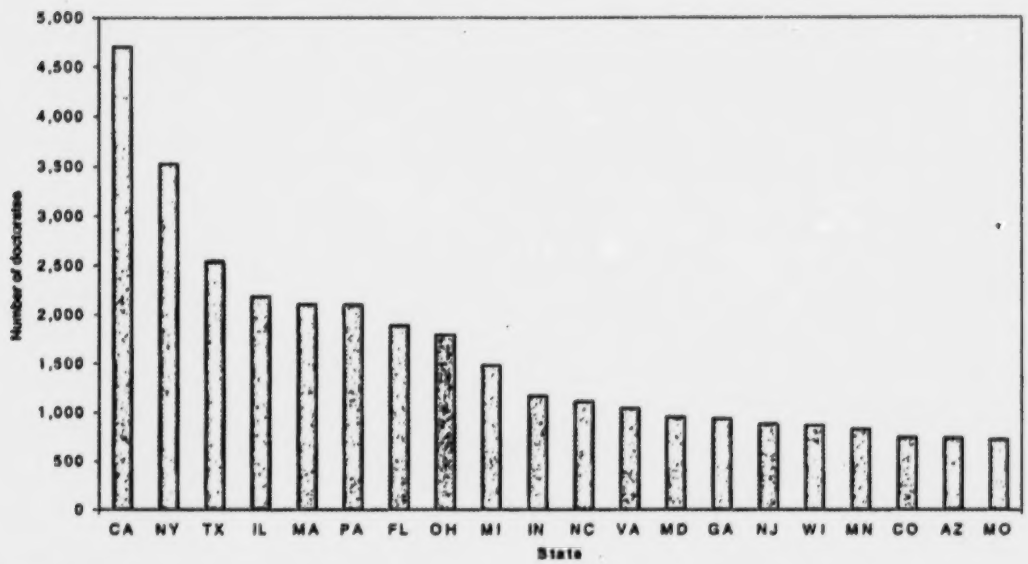
The University of California-Berkeley granted the largest number of doctorates, 751, or 1.8 percent of all doctorates awarded, followed by the University of Wisconsin-Madison (728) and the University of Minnesota-Twin Cities (684). The fourth largest was the University of Texas-Austin (656), which was the largest U.S. doctorate-granting institution in 1999 with almost 100 more graduates than it had in 2000. In 1999 and 2000, the top 10 institutions granted 15.6 percent of all doctorates. (See table 3.)

California universities led the nation by awarding 4,706 doctorates, or 11.4 percent of all doctorates in 2000. New York institutions granted the next highest number of doctorates (3,528), followed by institutions in Texas (2,545), Illinois (2,181), Massachusetts (2,104),

[4] Calculations derived from appendix table A-7.

Pennsylvania (2,101), Florida (1,889), and Ohio (1,795). These eight states accounted for more than half – 56.8 percent – of all doctorates awarded in 2000. (See figure 3 and table 4.)

Figure 3. Top 20 doctorate granting states, 2000



See Table 4.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Doctorates by Broad Field

The SED classifies research doctorate degrees into approximately 290 fields of specialization (these are listed on pages 8 and 9 of the questionnaire included in appendix D). Since fields of specialization are dynamic entities which reflect the evolving programs of researchers and their constituencies, the SED list is reviewed each year to identify emerging fields and periodically revised to accommodate changes in the world of doctoral education. The SED is able to collect information on the specialization fields of virtually all the new doctorates each year; coverage in 2000 was attained for all but 5 of the 41,368 doctorate recipients.

For presentation purposes here, the fields of specialization are grouped into seven broad fields: physical sciences,[5] engineering, life sciences,[6] social sciences (including psychology),

[5] The physical sciences also include mathematics and computer sciences.
[6] The life sciences encompass biological, agricultural, and medical sciences.

humanities, education, and a heterogeneous group of professional and other fields (including business, communications, social work, and theological programs). The numbers of graduates in all fields are included in appendix tables A-1, A-2, and B-1.

The number of doctorates granted in 2000 for each of the seven broad fields, by the largest institutions, are shown in table 3. The University of California-Berkeley awarded the most doctorates (146) in the physical sciences. The Massachusetts Institute of Technology (MIT) granted the most engineering doctorates (198), while the University of Wisconsin-Madison led all universities in the life sciences (211) and the University of California-Berkeley topped the list for social science doctorates (128). Also, the University of California-Berkeley granted the largest number of doctorates in the humanities (140), while Nova Southeastern University had the highest total in both education (396) and the heterogeneous "professional/other" category (79).

The numbers of doctorates awarded by broad field were also concentrated in a relatively small number of institutions. While the top 10 degree-granting universities awarded 15.6 percent of all doctorates in 2000, the concentration was higher in six of the seven broad fields: 18.0 percent in the physical sciences, 28.0 percent in engineering, 17.8 percent in the life sciences, 21.3 percent in the humanities, 20.3 percent in education, and 18.9 percent in the professional/other category. Only in the social sciences was the concentration lower than the overall average (14.2 percent). (Derived from table 3.)

Turning to the trend data (see appendix table B-1), the overall increase of 0.8 percent in doctorates awarded between the 1999 and 2000 academic years was a result of increases in some fields offsetting the declines in others. The life sciences, humanities, and social sciences showed increases of 4.7, 2.9, and 1.1 percent, respectively. Physical sciences registered the largest percentage drop of 4.1 percent. Engineering, education, and professional/other saw smaller decreases. The life sciences, with 8,529 doctorates, remained the largest single broad field, as it has since 1988.

Compared with five years ago (1995), when the total number of doctorates awarded was approximately the same as it was in 2000, professional/other, engineering, and the physical sciences showed large decreases: 15.1 percent, 11.3 percent, and 10.7 percent lower in 2000 than in 1995, respectively. (See figure 4.) Humanities registered the largest percentage increase from 1995 to 2000, with 11.3 percent more degrees awarded in 2000 than five years earlier. The

life sciences (+7.7 percent) and social sciences (+7.2 percent) were also higher in 2000; education was 3.4 percent lower. (See table 5 and figures 4 and 5.)

Figure 4. Science and engineering doctorates awarded by broad field, 1970-2000

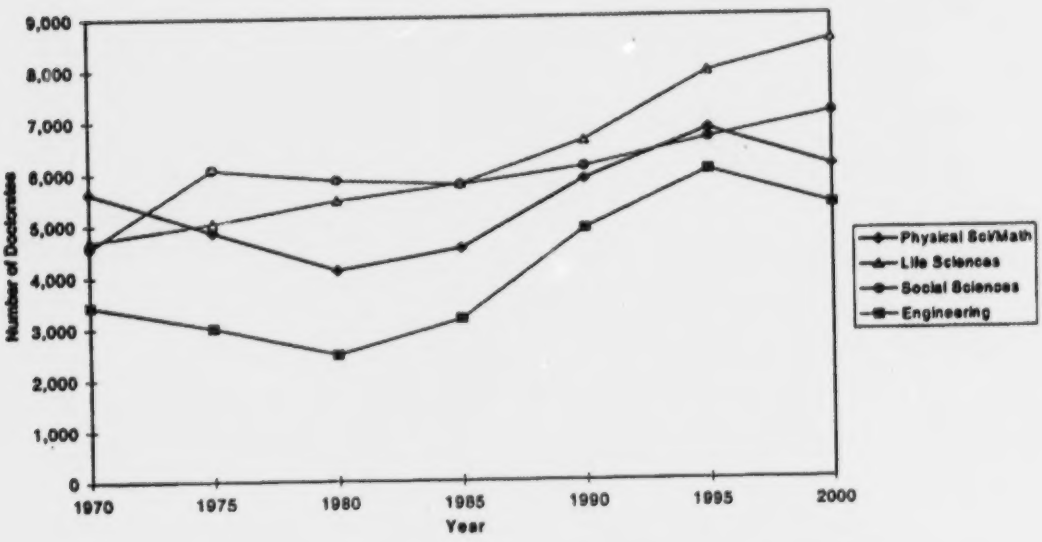
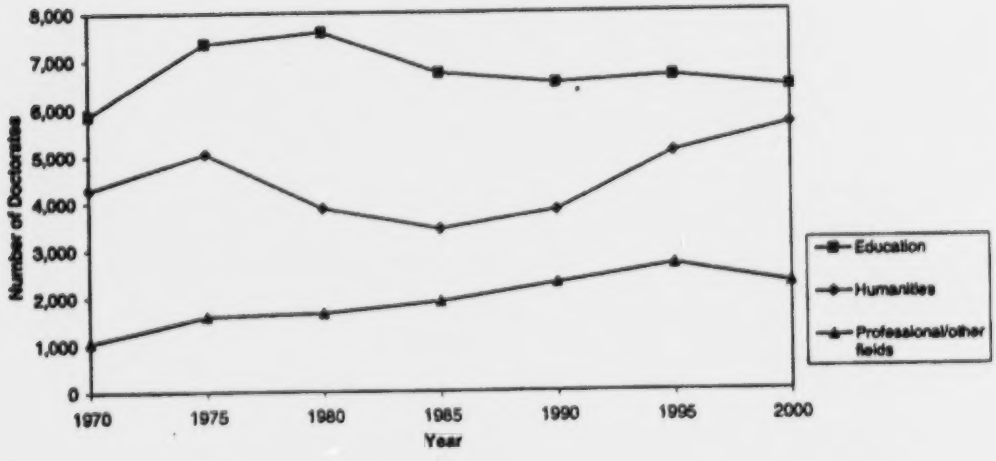


Figure 5. Humanities, education, and professional/ other fields doctorates awarded, 1970-2000

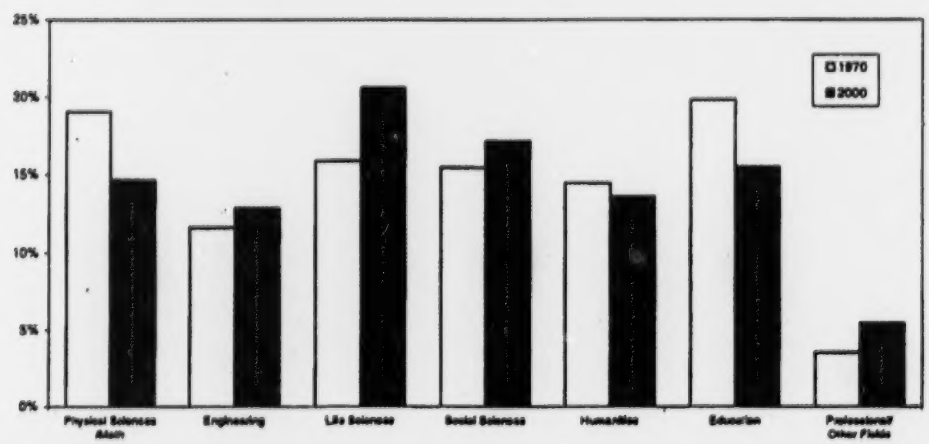


See Table 5.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

The four broad fields that together constitute "science and engineering" (S&E) – physical sciences, life sciences, and social sciences, plus engineering – represented 65.4 percent of all doctorates awarded in 2000. Ten years ago (1990), they accounted for approximately the same percentage of all doctorates (65.0 percent), but compared with 25 years ago (1975), the S&E fields represent a larger percentage of total degrees in 2000 than in 1975 (57.5 percent). (See table 5.) Less than half a percent change is seen in these combined S&E fields between 1999 and 2000 or between 1995 and 2000.

Of the 25 subfields included in table 5, 14 experienced declines in the number of doctorates awarded between 1999 and 2000 (see appendix table B-1 for the 1999 totals). Subfields in the education category, teacher education (11.0 percent) and teaching fields (7.1 percent), saw larger declines, while smaller declines were seen in the physical sciences. The largest gains were within the S&E category, in the subfields of sociology (+13.3 percent) and health sciences (+12.7 percent) between the 1999 and 2000 academic years. Comparing 1995 with 2000, 11 of the 25 subfields had larger absolute numbers of doctorates in 2000, and 14 had smaller numbers; within S&E fields in these same two years, 7 subfields had larger totals in 2000 than in 1995, and 8 had smaller ones. For both the one-year and five-year comparisons within S&E, the physical sciences and engineering categories displayed the largest declines, while the life sciences and social sciences showed the biggest gains. (See figure 6.)

Figure 6. Distribution of doctorate recipients by broad field, 1970 and 2000

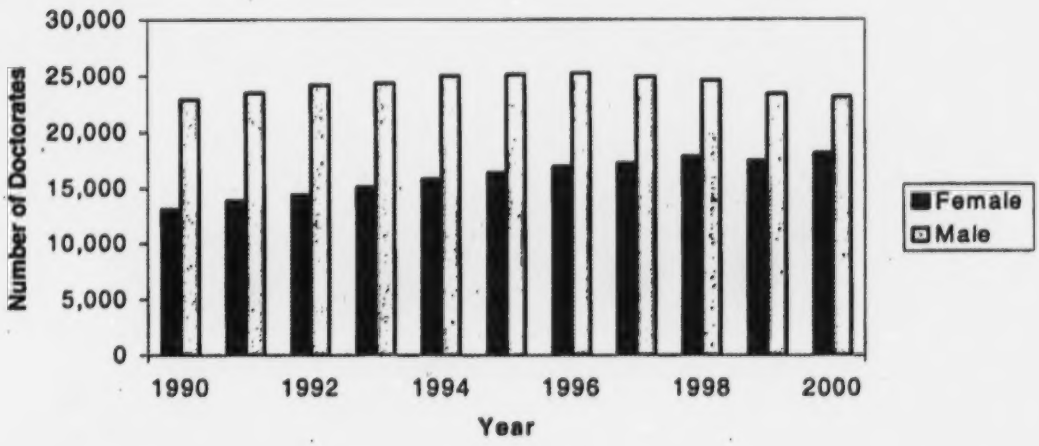


See Table 5.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Doctorates by Sex

The aggregate increase in doctorates between 1999 and 2000 – 0.8 percent – reflects a 1.0 percent decline for males and a 1.3 percent increase for females. The numbers of doctorates awarded to men in 2000 fell by 245, while 657 more women received doctorates in 2000 than in 1999. The net effect is that for 2000, females received 43.8 percent of all doctorates, up from 42.5 percent in 1999, which had been the highest percentage ever for women.[7] This marks the fifth consecutive year in which the representation of female doctorate recipients has exceeded 40 percent. Five years ago (1995), females constituted 39.3 percent of all doctorate recipients; 10 years ago (1990), that percentage was 36.3 and 25 years ago (1975), it was 21.9 percent. (See figure 7 and table 7.)

Figure 7. Doctorate recipients by sex, 1990-2000



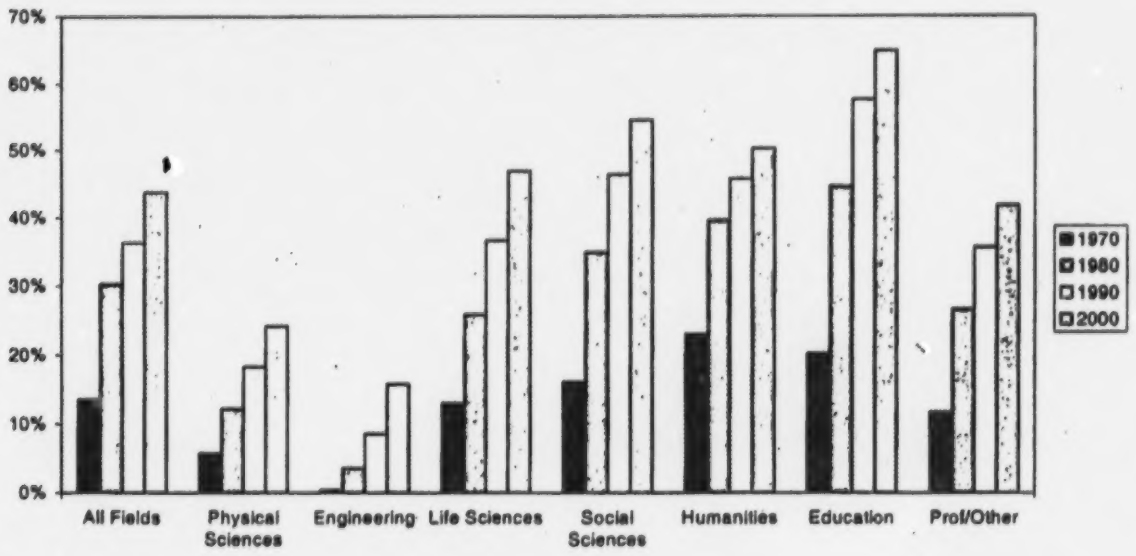
See Appendix Tables B-2b and B-2c.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

With respect to the distribution of doctorates by sex across broad fields of study, women constituted 64.9 percent of all education doctorates for 2000, the majority in the social sciences

[7] For 2000, sex could not be determined for 74 doctorate recipients; these 74 are not part of these and other percentage calculations. In 1999, the corresponding number of cases of undetermined sex was 187.

(54.6 percent), and half in the humanities (50.3 percent). By contrast, the representation of females among doctorate recipients in the physical sciences and engineering for 2000 was only 24.2 percent and 15.8 percent, respectively (figure 8). However, even these still-low percentages have shown remarkable change over time: 25 years ago, when females were only 21.9 percent of all doctorate recipients, they constituted just 8.3 percent and 1.7 percent in the physical sciences and engineering, respectively. Similar long-term trends are discernible in other broad fields as well: in the life sciences, from 19.8 percent in 1975 to 46.9 percent in 2000; 25.1 percent to 54.6 percent in the social sciences over that same period; and from 33.4 percent in the humanities in 1975 to the current 50.3 percent. (See figure 8 and table 7.)

Figure 8. Percent of female doctorate recipients, by broad field, 1970, 1980, 1990, 2000



See Table 7.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

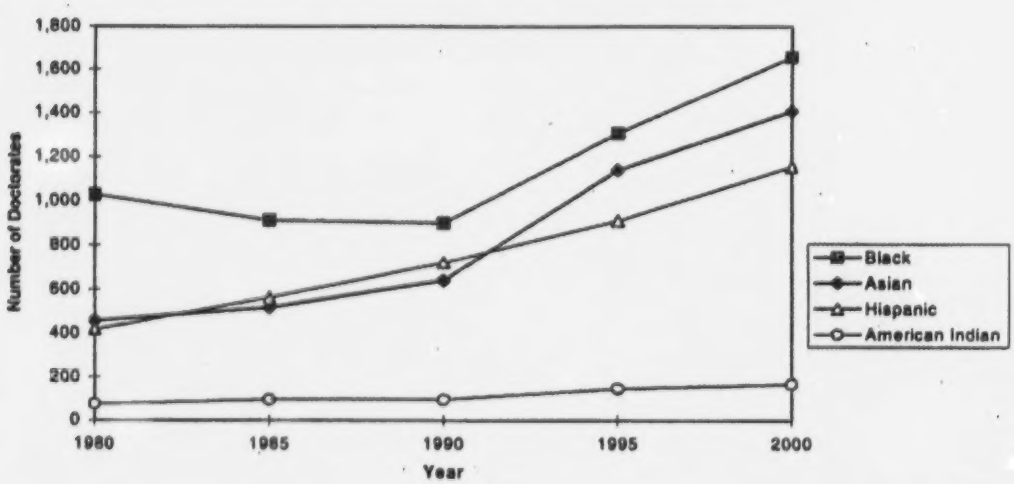
In 2000, females represented 37.7 percent of S&E doctorate recipients and 55.5 percent of degrees in non-S&E fields. With respect to finer field distinctions, of the 25 selected subfields listed in table 6, women were the majority of doctorate recipients in seven fields and constituted at least 40 percent of the doctorate population in five more areas. In 10 of the 25 fields, the percentage increase in female doctorate recipients between 1990 and 2000 was over 40 percent.

Doctorates by Race/Ethnicity

While the total number of doctorates rose between 1999 and 2000 by 0.8 percent, the aggregate number of minority doctorate recipients increased by 2.5 percent for U.S. citizens. Within minority race/ethnic categories, Asians and blacks showed the largest percentage gains, 6.4 percent and 3.9 percent, respectively; the corresponding figure for Hispanics was 0.5 percent. American Indians were the only minority group to register a decrease in the number of doctorates from 1999 to 2000, falling from 217 to 169. By comparison, the number of white doctorate recipients remained almost unchanged. (See appendix table B-2a.)

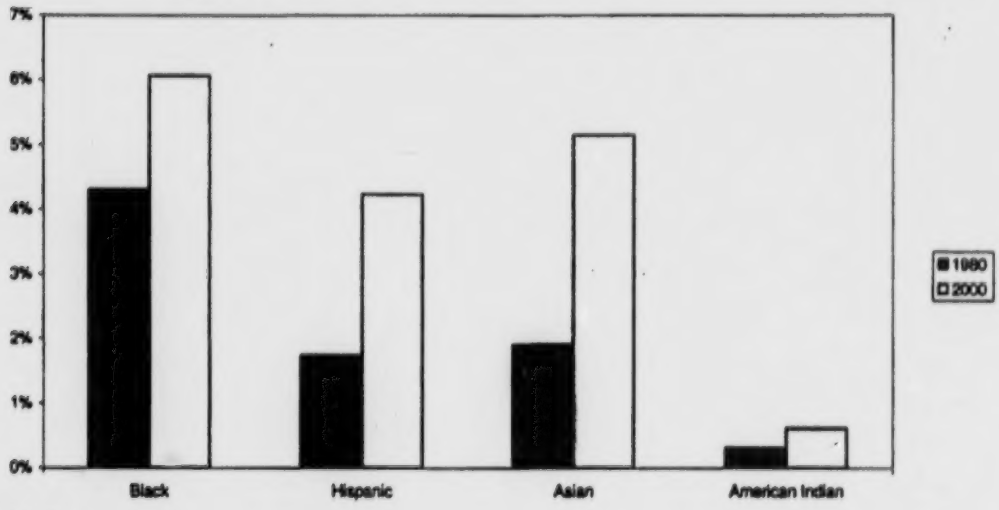
A total of 4,389 doctorates were awarded to members of U.S. racial/ethnic minority groups in 2000. This figure is, as noted above, 2.5 percent higher than one year earlier; it is also 25.1 percent higher than the total five years earlier (1995) and nearly double the number for 1990 (86.0 percent higher). The figures in the first panel of table 8 generally indicate that doctorates awarded to U.S. minority groups increased much more in the 1990's than the 1980's. The twenty-year gains were greater for Asians (207 percent), Hispanics (177 percent), and American Indians (125 percent) than for blacks (61 percent). (See figures 9 and 10 and table 8.)

Figure 9: Doctorates awarded to minority U.S. citizens, by race/ethnicity, 1980-2000



See Table 8.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

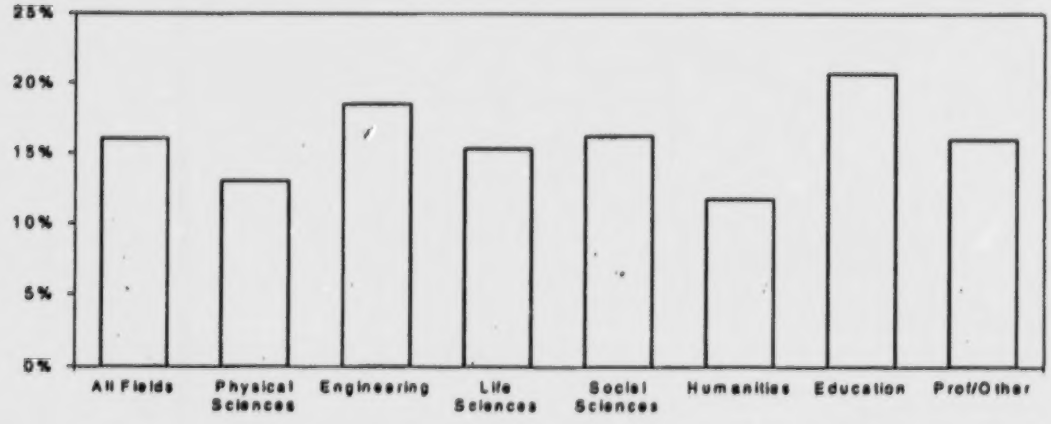
Figure 10. Percentage of doctorates earned by minority U.S. citizens, 1980 and 2000



See Table 8.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

U.S. minorities registered sizable gains from 1995 to 2000 in all seven broad fields, ranging from a 5.6 percent increase in engineering to a 46.3 percent increase in the humanities (table 8). Over that same period, the number of doctorates awarded to whites fell by 4.2 percent. Thus, the minority gains between 1995 and 2000 represent a growing minority share of the total number of doctorates awarded to U.S. citizens. (See figure 11 and table 9.)

Figure 11. Percentage of doctorates earned by minority U.S. citizens, by broad field, 2000

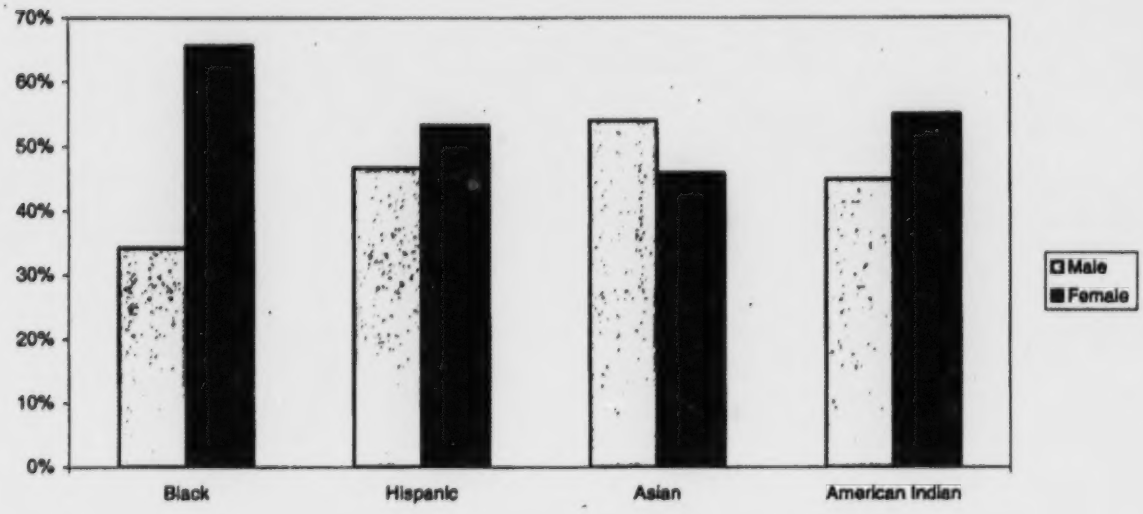


See Table 8.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Within racial/ethnic groupings, the trends for the broad fields shown in table 8 indicate that the overall pattern for minorities generally holds for the separate minority groups within the seven broad fields. One exception is that the number of Asian doctorate recipients in engineering grew rapidly from 1980 to 1995, but leveled off from 1995 to 2000. The general pattern, however, was one of relatively small increases from 1980 to 1990 followed by large increases from 1990 to 2000. (See table 8.)

The balance of male and female doctorate recipients differs between racial/ethnic groups. Among U.S. citizens, of doctorates earned by whites, 48.4 percent were awarded to women; for blacks, various Hispanic groups, and American Indians, women were in the majority, earning between 51.0 percent and 65.7 percent of doctorates received by persons of those races or ethnicities. Among Asian Americans, women were 45.9 percent of the total. (See figure 12 and appendix table A-4.)

Figure 12. Percentage of doctorates earned by minority U.S. citizens, by sex, 2000



See Appendix Tables B-2b and B-2c.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 10 lists the universities that awarded the largest number of doctorates to members in each of the four minority groups between 1996 and 2000, and the absolute number granted. Over that interval, three California institutions – Berkeley, UCLA, and Stanford – and two in

Massachusetts – Harvard and MIT – awarded more than 1,000 doctorates (1,126) to Asian Americans, or 17.9 percent of all doctorates awarded by U.S. universities to Asian Americans. Nova Southeastern University and Howard University awarded, by far, the most doctorates to blacks (287 and 241, respectively), 7.1 percent of all the doctorates granted to this racial category. In general, the leading institutions awarding doctorates to Hispanics lie in the Southwest, including California, and in Puerto Rico. Lastly, Oklahoma State University and the University of Oklahoma grant the largest number of doctorates to American Indians.

The concentration of U.S. minority doctorate recipients among institutions is considerably greater than for the doctoral population as a whole. In 2000, for example, the leading 10 universities granted 15.6 percent of all doctorates. But over the 1996-2000 period, the 10 universities awarding the most degrees to minority students in each of the four groupings accounted for nearly 20 percent of those totals. The top 10 institutions that awarded doctorates to Asians in table 10 granted 27.5 percent of all Asian doctorates between 1996 and 2000; for blacks the corresponding figure is 19.7 percent; for Hispanics it was 23.1 percent, and for American Indians it was 19.6 percent. (See table 10.)

Doctorates by Citizenship

The SED collects information on the citizenship status and country of citizenship of the new doctorate recipients each year.[8] Of the 2000 doctorate recipients with known citizenship status (96.5 percent of the total), 70.6 percent were U.S. citizens, 5.0 percent were non-U.S. citizens permanent residents with visas for the United States, and 24.4 percent were non-U.S. citizens in the U.S. on temporary visas. (See table 11.)

With regard to broad field of study, of the doctoral population with known citizenship status, U.S. citizens earned more than 80 percent of the doctorates awarded in the social sciences, humanities, and education (80.8 percent, 81.7 percent, and 89.3 percent, respectively) in 2000. (See table 11.) In absolute numbers, U.S. citizens earned more doctorates in education than in

[8] Citizenship status (U.S. versus non-U.S.) and country of citizenship are variables with somewhat higher than average non-response in the SED, and the figures presented in this section are therefore less certain than others in the report. The percentage of cases with missing data on these variables has also fluctuated more year to year than other SED variables, and the over-time comparisons are thus also subject to some uncertainty. For example, in 1995 citizenship status was unknown for 2.1 percent of recipients, but this number was 3.8 percent in 1990 and 1.8 percent in 1975.

any of the other broad fields; permanent residents had their highest total in the life sciences, and for those in the United States on temporary visas, engineering was the most popular field.

The convergence of male and female representation in the doctoral cohorts is particularly striking for U.S. citizens. In 2000, 49.4 percent of all doctorates awarded to U.S. citizens went to women, up from 47.9 percent in 1999 and continuing a long-term trend of U.S. women approaching parity with their male counterparts. For example, in 1990, among U.S. citizens, women earned 43.1 percent of all doctorates. In the 1990s while the number of doctorates going to U.S. males was relatively level, the number earned by U.S. women increased every year except 1999. (See appendix tables A-4 and B-2.)

Among permanent residents earning doctorates in 2000, 41.6 percent were female, and among those doctorate recipients holding temporary visas, only 29.1 percent were female (appendix table A-4). Women holding temporary visas are more concentrated in the S&E fields of study than women who are U.S. citizens. While women with temporary visas represented 15.5 percent of all female doctorates in 2000, they earned 30.1 percent of the doctorates granted to females in the physical sciences, 36.0 percent of the female-earned doctorates in engineering, and 21.0 percent of the doctorates earned by females in the life sciences (appendix table A-3c).

Citizens of the People's Republic of China (PRC)[9] earned 2,594 doctorates in 2000, or 6.3 percent of the total 41,368 degrees awarded. (See table 12 for a listing of the top 30 countries of origin of non-U.S. citizen doctorate recipients.) The top 15 countries in terms of the number of doctorates awarded to its citizens in 1999 remained the same for 2000, although Korea moved from third to second on the list, changing places with India, and a few other nations changed modestly in the rankings as well. The leading five countries accounted for 14.7 percent of all doctorates awarded by U.S. universities in 2000. Only 5.3 percent of the total doctoral population are citizens of next 10 nations listed in table 12, and only 3.1 percent are citizens of the next 15 nations. Doctoral students who are citizens of one of the 30 nations shown in the table thus account for 23.1 percent of the 41,368 doctorates awarded in 2000.

Table 13 lists the institutions awarding the largest numbers of doctorates to non-U.S. citizens in 2000; table 14 provides a complementary ranking – those institutions awarding the largest percentage of doctorates relative to the total number of Ph.D.s they granted.

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[9] Includes Hong Kong beginning with the 2000 SED cycle.

Doctorates by Parental Education Background

Since 1963, the SED has asked new doctorate recipients to report their fathers' and mothers' levels of educational attainment. For purposes here, the responses are grouped into three categories: high school diploma or less; some college, including earning the baccalaureate; and advanced degree, including the master's, doctorate, or a professional degree. While only the data for 2000 are described here, analysis of the historical record would be a useful subject for further research on the social origins of the doctorate population.

The 2000 data (see table 15) show that 30.9 percent of recipients' fathers had only earned a high school diploma or less; the corresponding figure for their mothers was 40.2 percent. Slightly over one-third (35.0 percent) of doctorate recipients had a father who had gone to college (but may not have earned a baccalaureate degree); 39.2 percent of the mothers of doctorate recipients in 2000 had some college background. Finally, for 34.1 percent of the doctorate recipients, the father held an advanced degree, compared with 20.6 percent whose mothers had an advanced degree.

Although similar in general, parental education backgrounds of male and female 2000 doctorate recipients differed with respect to mothers' education. Female doctorate recipients were more likely than their male counterparts to have a mother who attended college or who earned an advanced degree.

There is considerable variation in parental education attainment by race/ethnicity, citizenship status, and broad field of study. Compared with other racial/ethnic categories, Asian American doctorate recipients were more likely to come from families in which both the father and mother had advanced degrees; black, Hispanic and American Indian recipients' parents were the least likely to have gone beyond high school. U.S. citizen doctorate recipients were more likely than those with either permanent residency status or holding temporary visas to have parents with advanced degrees (and less likely than these two groups to have parents whose formal education did not extend beyond the high school level).

The distributions of parental education by the broad fields in table 15 reflect, in part, the different race/ethnic and citizenship compositions of the fields. Doctorate recipients in the humanities displayed the highest percentages of both fathers (42.2 percent) and mothers (25.3 percent) with advanced degrees. Education doctorate recipients had the lowest percentages of advanced degrees by fathers or mothers, 20.7 percent and 12.0 percent, respectively. These two

broad fields are also the least and most represented, respectively, with regard to the fraction of parents whose formal education stopped at high school or before.

Time to Degree

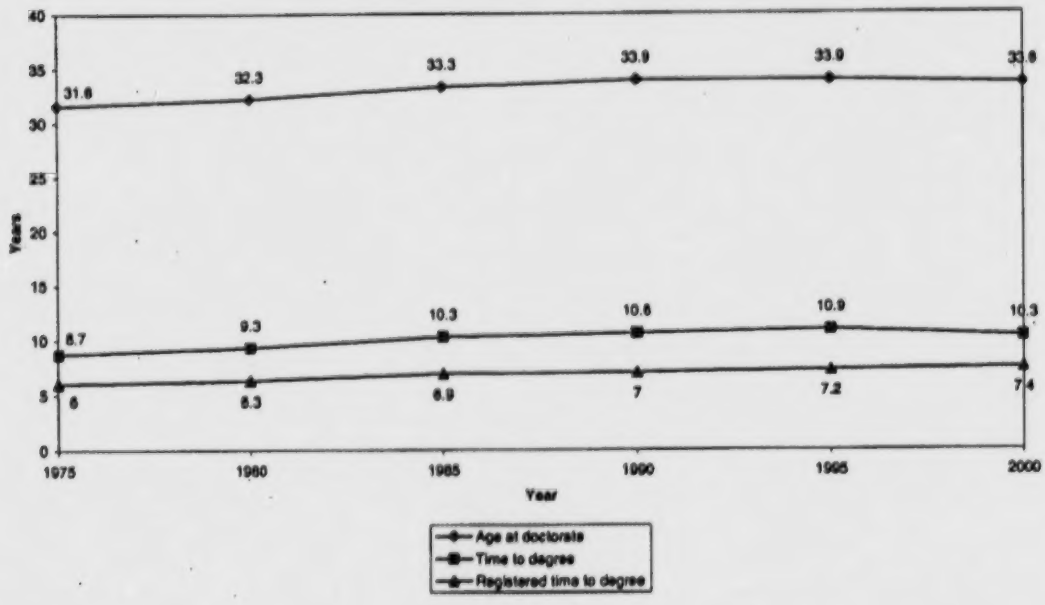
The amount of time needed to complete a doctorate is a key concern not only for those pursuing the degree, but also for the faculties and administrations of the degree-granting institutions, as well as national public agencies and private organizations that support doctoral study. Time to degree is likely to be affected by individual preferences and economic constraints, as well as by the labor markets and cultures of the academic disciplines and institution-specific program characteristics.

The SED measures time to degree in three ways: (1) the total time elapsed from completion of the baccalaureate to completion of the doctorate, (2) the total time elapsed while actually registered in graduate school to completion of the doctorate, and (3) the simple age of the doctorate recipients at the time the doctorate is awarded. In this section, the 2000 data and the historical trends for each of these measures is reviewed for the whole population of doctorate recipients and, separately, by broad field and the background variables of sex, race/ethnicity, and citizenship.

The median total time span from baccalaureate to doctorate for the 2000 doctorate recipients was 10.3 years (table 16), nearly the same as in 1999. The total time span was shortest in the physical sciences (8.0 years) and longest in education (19.4 years). The latter broad field includes large numbers of individuals who have worked full-time before starting their graduate degree programs, and who even continue to work full-time while earning their doctorates.

The historical data in table 16 show that the 2000 median total time to degree was about 6 months shorter than in 1995. The long-term trend has been one of increases in length from 1975 to 1995 (see figure 13 and table 16). The broad fields of engineering, physical sciences, life sciences, social sciences, humanities, and education follow this overall pattern toward shorter times; but median time to degree for the professional/other fields increased from 1995 to 2000.

Figure 13. Median number of years to doctorate from baccalaureate award and age at doctorate, 1975-2000



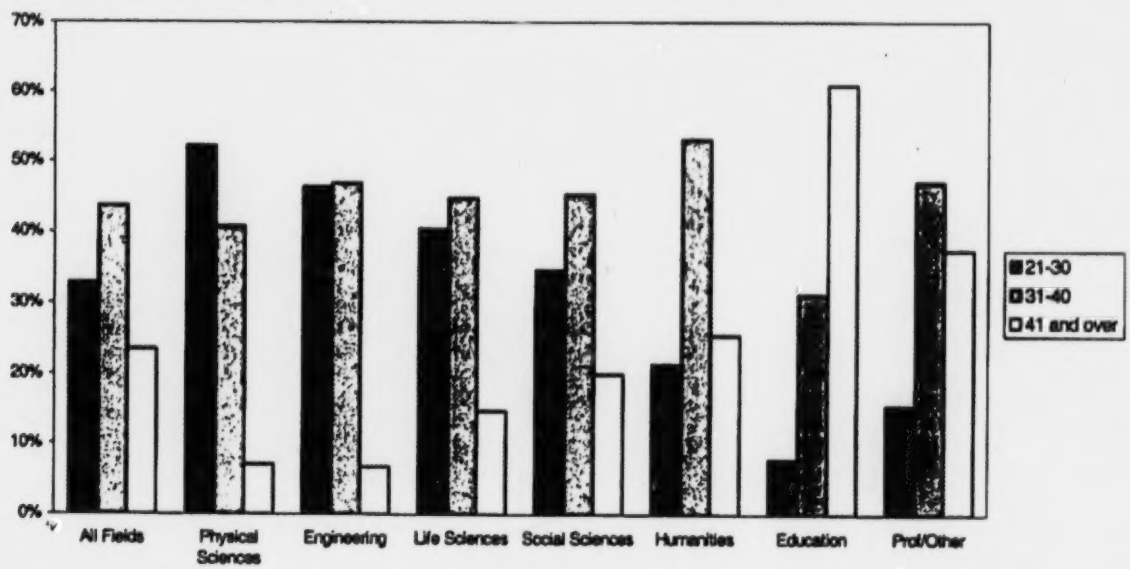
See Table 16.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

The median duration of being registered in graduate school was 7.4 years for the 2000 doctorates (table 16), nearly identical to the number for 1999. Registered time to degree was shortest in the physical sciences and engineering (6.8 years), and longest in the humanities (8.8 years) (table 16). The trend for time registered is one of small but steady increases over the 25-year span from 1975 to 2000 (see figure 13 and table 16) for all seven broad fields, with some flattening in the past five years.

The median time to degree indices vary somewhat by sex, citizenship, and race/ethnicity, but these differences are mainly reflections of the broad field differences reviewed above (table 17). Across the whole population of new doctorate recipients, females had longer total and registered times to degree than did males, but the sex differences disappear, or reverse, when males and females are compared within specific broad fields other than humanities and education. Similar patterns hold for comparisons of U.S. and non-U.S. citizens, and of the U.S. racial/ethnic groups (see table 17).

The third measure of time to degree compiled in the SED is age at doctorate. The median ages of the 2000 doctorate recipients are tabulated in appendix tables A-3 by major field of degree and A-4 by citizenship and race/ethnicity. Overall, the median age at receipt of the doctorate in 2000 was 33.6 years. Again, age at degree varies with field of study. Doctorate recipients in the S&E fields typically earn their degrees in their early 30s; the median for all 2000 doctorate recipients in the S&E fields was 31.9 years old. In contrast, age at doctorate was 34.8 years in the humanities, 44.4 years in education, and 37.8 years in the professional/other fields category. (See appendix table A-3a and table 18). The modal age spans evident in figure 14 and table 18 reflect this ordering.

Figure 14. Age distribution at doctorate by broad field of study, 2000



See Table 18.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

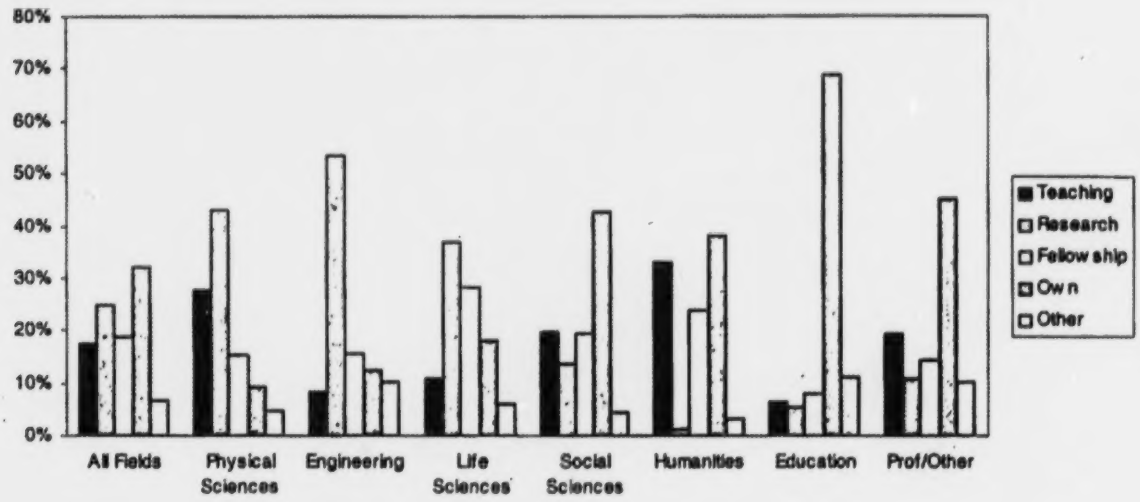
Financial Resources in Support of Doctorate Recipients, Including Indebtedness

The SED asks two questions that, taken together, provide information on the financial sources of support utilized by the new doctorate recipients (for the exact formats and wordings, see the copy of the questionnaire in Appendix D). The first question is a checklist of 13 different potential sources of support, such as fellowships and scholarships, dissertation grants, teaching and research assistantships, and various personal arrangements. The second question asks which of the checked sources was the primary source of support and which was the second most important. For purposes here, respondents are grouped in terms of their primary sources of support. The 13 sources are combined into the seven categories that form the rows in table 19.

Three in five – 61.1 percent – of the 2000 doctorate recipients received the majority of their support for doctoral study from program- or institution-based sources, such as teaching assistantships, research assistantships/traineeships, and fellowships/dissertation grants.[10] About one third (32.2 percent) of all 2000 doctorate recipients reported that their own resources (which include funds from loans, one's spouse, savings, and non-academic employment) were the primary sources they used to finance their doctoral studies. Foreign government, employer contributions, and "other" sources accounted for the remaining 6.6 percent of the cases. (See figure 15 and table 19.)

[10] The Federal government and other governments can be the original source of these funds.

Figure 15. Primary sources of financial support for doctorate recipients, 2000



See Table 19.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Overall, women were more dependent upon personal resources than were men (40.5 percent versus 25.7 percent). The same was true for U.S. citizens (40.4 percent) compared to foreign citizens on permanent or temporary visas (22.7 percent and 10.2 percent, respectively). However, sources of support vary considerably by field of study. For example, within the physical sciences, a much higher than average percentage of new doctorate recipients reported program- or institution-based programs as primary sources of support (86.0 percent).

In engineering, 77.5 percent of the research doctorate recipients in 2000 listed teaching/research assistantships or fellowships as their principal form of support, as did 76.0 percent of those in the life sciences. In contrast, only 58.4 percent of doctorate recipients in the humanities, 52.9 percent of those in the social sciences, and 20.0 percent of those in education reported these categories as the primary sources of financial support for their doctoral program.

The gender differences and contrasts between U.S. and non-U.S. citizens reflect these differences among the broad fields. Nonetheless, in all the broad fields of study except engineering and humanities, new women doctorates were more likely to depend on their own resources than new men doctorates (table 19). Similarly, non-U.S. citizens tend to be more concentrated in fields where the majority of doctoral students receive institution- and/or

program-based support. Reflecting this concentration, non-U.S. citizens reported lower percentages of reliance on their own resources than did U.S. citizens. The differences were much smaller within the broad fields of study than overall, but U.S. citizens were still more likely to rely on their own resources than non-U.S. citizens (table 19).

Differences in the various modes of financial support are also apparent with regard to race/ethnicity. Black doctorate recipients indicated the greatest reliance on their own resources to finance their doctoral program (47.0 percent), followed by American Indians (44.7 percent), whites (40.4 percent), Hispanics (39.6 percent), and Asians (20.7 percent). Within most of the broad fields of study, the race/ethnicity differences in reliance on own resources diminish. Some large race/ethnic differences within fields are found, however, in terms of use of the different types of program- and institution-based supports. In the physical sciences and engineering, Asians and whites were more likely than blacks and Hispanics to rely on teaching and research assistantships and less likely to have fellowships or dissertation grants as their primary source of support.

The SED also asks the new doctorate recipients to indicate the amount of money they owe that is directly tied to their undergraduate or graduate education. This is defined as debt related to tuition and fees, living expenses and supplies, and transportation to and from school. The response categories begin with "none" and proceed upward in $5,000 increments, with "$30,001 or more" at the top.[11] A total of 37,513 (91 percent) graduates responded to the question.

Almost half (49.3 percent) of the respondents in 2000 reported having no education-related debt, and another 22.6 percent reported cumulative debt of $15,000 or less (table 20). However, a distinct bulge at the high end of the debt distribution is also evident, with 15.1 percent of all new doctorate recipients reporting debt over $30,000.

Looking at the debt distributions within each of the seven broad fields, graduates in the physical sciences, engineering, education, and the life sciences are most likely to complete the doctorate with no education-related debt (table 20). Social scientists and humanities graduates are more likely to have debt. Debt levels in excess of $30,000 or more are most common among

[11] See the special section on indebtedness in the *Summary Report 1998* for more detail on debt levels and financial support for doctoral education. The report is available on the NORC web site (http://www.norc.uchicago.edu/issues/docdata.htm).

social scientists (27.2 percent), graduates in the professional/other fields areas (18.5 percent), and the humanities (17.9 percent).

The pattern of debt levels for the main demographic groups are shown in table 21. Particularly noteworthy in these tabulations is the much higher incidence of blacks, Hispanics, and American Indians incurring high levels of education-related debt. Three in ten (30.0 percent) of black doctorate recipients, 23.5 percent of American Indians, and 23.2 percent of Hispanics owed more than $30,000; these figures compare to 11.1 percent of Asians and 16.6 percent of whites owing that much. At the other extreme, Asians and whites are much more likely than the other groups to have no education-related debt upon completion of the doctorate.

Slight differences are observed in the debt level pattern between the sexes. New female doctorates were more likely to have some debt than their male counterparts (51.9 percent vs. 49.8 percent). Among new doctorates, U.S. citizens were more likely to incur higher education related debt than graduates with permanent or temporary visas (57.7 percent, vs. 34.9 percent, and 33.3 percent, respectively).

Postgraduate Plans, Employment, and Location

The SED questionnaire includes a number of questions about the graduates' immediate plans for work or further study.[12] The responses provide a useful overview of the numbers planning to enter academic positions, government and industry, and postdoctoral programs of research and further study. Information is also collected on the main types of work activities – research, teaching, administration, and professional services to individuals – that the graduates anticipate in their new positions.

Three aspects of postgraduation plans are examined in this report. The first is whether the new doctorate recipient has a definite commitment for employment or a postdoctoral position. These data are examined by broad field of study, sex, citizenship, and race/ethnicity (tables 22 and 23). The second aspect is the distribution of graduates with definite commitments for career employment versus postdoctorate research and study programs. This distribution is also examined separately by broad field of study, sex, citizenship, and race/ethnicity (tables 24 and 25), as well as by visa status and anticipated location (foreign versus U.S.) for non-U.S. citizens (tables 26 and 27). The third aspect is the distribution of graduates across employment sectors, broken down by sex, race/ethnicity, and citizenship status (table 28).

Definite versus Indefinite Plans

Seven in ten (71.1 percent) of all doctorate recipients in 2000 reported having definite commitments for employment or postdoctoral study or research. This rate is consistent with those for recent years, but somewhat lower than the rates in the 1980s (table 22). With the notable exception of the humanities, the percentages with definite commitments in 2000 vary little by broad field. In the humanities, only 61.5 percent have a definite commitment.

The percentages with definite commitments also differed little among demographic groups (table 23). About three percent fewer women than men (69.4 versus 72.5 percent) had definite plans. U.S. citizens were more likely to have definite commitments (72.9 percent) than

[12] The items in the postgraduation plans section of the questionnaire are not classified as "critical items" which become the focus of missing data follow-ups. Thus, the response rates to the postgraduation plans items mirror the returns of the actual questionnaire, minus a low rate of item nonresponse. For the 2000 SED cycle, the overall response rate for the first item, asking whether the respondent has definite plans for either career employment or study, was 90.8 percent.

individuals with permanent (62.1 percent) or temporary visas (67.7 percent). Among U.S. citizens and permanent residents, whites, American Indians, and Hispanics were more likely to have definite plans than blacks and Asians.

Career Employment versus Postdoctorates

Among the doctoral recipients reporting definite plans, the majority (71.3 percent) indicated that they plan to enter career employment as opposed to pursuing further study within a postdoctoral research or teaching program (table 24). Postdoctorate study was more common among graduates in the life sciences (60.5 percent) and the physical sciences (45.3 percent) than in the other broad fields. Although percentages of new doctorate recipients entering postdoctorate study programs has increased in all of the broad fields since 1980, decreases are evident between 1995 and 2000 (table 24) in the life sciences, the physical sciences, and engineering.

Differences among demographic subgroups are shown in table 25. Men were slightly more likely than women to have definite plans for postdoctorate study (30.4 versus 26.4 percent). Students with temporary visas were more likely than permanent residents and U.S. citizens to pursue postdoctorate studies (the student visa allows the student to remain in the U.S. for two years of additional training after completing the doctorate). Among U.S. citizens and permanent residents, Asian doctorate recipients were more likely than other race/ethnicity subgroups to plan postdoctorates followed by Hispanic and white recipients, respectively. Black and American Indian doctorate recipients were least likely to report postdoctorates. These differences among citizenship and race/ethnicity subgroups reflect the greater number of postdoctorates in the physical and life sciences, and the greater concentrations of non-U.S. citizens and Asian American students in those fields.

Postdoctoral Location of Non-U.S. Citizens

As the number of international students earning research doctorates in the United States has steadily increased over the past two decades, so has the tendency for those students to remain in the United States following graduation. Table 26 shows that, among non-U.S. citizens with definite plans for work or study, 92.2 percent of all new doctorate recipients holding permanent visas and 69.9 percent of temporary visa holders indicated that they will remain in the United

States following graduation. The fields with the highest concentrations of new doctorate recipients with temporary visas staying in the United States were chemistry (85.7 percent), biology (85.4 percent), and computer science (84.6 percent); and the lowest concentrations were found in the fields of education (27.9 percent), humanities (48.7 percent) and social sciences (56.2 percent) (table 26). A similar pattern is observed among new doctorate recipients with permanent visa status staying in the United States. The fields with the highest concentrations of new doctorate recipients with permanent visas staying in the United States were mathematics (100 percent), biology (96.8 percent), and chemistry (96.2 percent) (table 26).

The trend shown in table 27 is one of increasing numbers and percentages of new doctorate recipients with temporary visas planning to stay in the United States after receiving their doctorate. In 1980, 39.4 percent of those with temporary visas had firm commitments to positions in the United States. A decade later, 53.9 percent of them had firm commitments to stay in the United States; in 2000, that number had further grown to 69.9 percent.

Employment Sectors in the United States

Higher education remains the most common destination of the 2000 doctorates with definite commitments within the United States, identified by half (51.8 percent) of the 2000 respondent subpopulation (see table 28). The next largest group, 21.1 percent, had commitments to industry or some form of self-employment, and 8.4 percent planned to work for Federal, state, or local government. The historical trends show reductions in academic and in government employment, coupled with an increase in the industry/self-employment sector.

Among 2000 female doctorates, one in seven (14.5 percent) had commitments to industry or some form of self-employment, in comparison to one in four (27.5 percent) among their male counterparts. With regard to U.S. racial/ethnic groups, Asians were less likely than others to go immediately into higher education and were more likely than all others to go into industry or self-employment. Industry or self-employment was also the main destination of non-U.S. citizens with definite plans to remain in the United States after graduation.

DATA TABLES

2000 SURVEY OF EARNED DOCTORATES

Table 1. Number of doctorates awarded and annual percentage change in doctorates awarded by U.S. colleges and universities, 1957-2000

Year	Number of Ph.D.s	Percent Change*	Year	Number of Ph.D.s	Percent Change*
1957	8,611	1.1	1979	31,239	1.2
1958	8,773	1.9	1980	31,020	-0.7
1959	9,213	5.0	1981	31,356	1.1
1960	9,733	5.6	1982	31,111	-0.8
1961	10,413	7.0	1983	31,281	0.5
1962	11,500	10.4	1984	31,337	0.2
1963	12,728	10.7	1985	31,297	-0.1
1964	14,325	12.5	1986	31,902	1.9
1965	16,340	14.1	1987	32,370	1.5
1966	17,949	9.8	1988	33,500	3.5
1967	20,403	13.7	1989	34,327	2.5
1968	22,937	12.4	1990	36,067	5.1
1969	25,743	12.2	1991	37,534	4.1
1970	29,498	14.6	1992	38,890	3.6
1971	31,867	8.0	1993	39,800	2.3
1972	33,041	3.7	1994	41,034	3.1
1973	33,755	2.2	1995	41,742	1.7
1974	33,047	-2.1	1996	42,413	1.6
1975	32,952	-0.3	1997	42,545	0.3
1976	32,946	0.0	1998	42,634	0.2
1977	31,716	-3.7	1999	41,060	-3.7
1978	30,875	-2.7	2000	41,368	0.8

* From previous year.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 2. Number of doctorates awarded by U.S. colleges and universities and average doctorate recipients per institution, 1962-2000

Year	Number of doctorate recipients	Number of institutions	Mean number of doctorate recipients per institution	Median number of doctorate recipients per institution
1962	11,500	175	66	26.0
1963	12,728	186	68	27.0
1964	14,325	196	73	27.0
1965	16,340	206	79	33.0
1966	17,949	216	83	32.0
1967	20,403	220	93	39.0
1968	22,937	230	100	43.5
1969	25,743	232	111	51.0
1970	29,498	242	122	55.0
1971	31,867	264	121	45.0
1972	33,041	271	122	49.0
1973	33,755	290	116	42.0
1974	33,047	297	111	38.0
1975	32,952	297	111	43.0
1976	32,946	299	110	43.0
1977	31,716	309	103	39.0
1978	30,875	316	98	35.0
1979	31,239	316	99	38.5
1980	31,020	325	95	37.0
1981	31,356	328	96	40.0
1982	31,111	333	93	34.0
1983	31,281	337	93	35.0
1984	31,337	336	93	38.0
1985	31,297	342	92	35.5
1986	31,902	345	92	35.0
1987	32,370	353	92	37.0
1988	33,500	355	94	35.0
1989	34,327	360	95	36.0
1990	36,067	358	101	42.0
1991	37,534	367	102	38.0
1992	38,890	370	105	42.0
1993	39,800	375	106	42.0
1994	41,034	377	109	43.0
1995	41,742	384	109	42.5
1996	42,413	392	108	43.0
1997	42,545	383	111	45.0
1998	42,634	387	110	44.0
1999	41,060	395	104	42.0
2000	41,368	406	102	40.5

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 3. Top 20 doctorate-granting institutions, by broad field of doctorate, 2000

Institution	Number of doctorates
All Fields	
University of California-Berkeley	751
University of Wisconsin-Madison	728
University of Minnesota-Twin Cities	684
The University of Texas at Austin	656
University of Michigan-Ann Arbor	653
Ohio State University-Main Campus	609
University of California-Los Angeles	604
University of Illinois at Urbana	600
Nova Southeastern University	590
Stanford University	567
Harvard University	547
Pennsylvania State University-Main Campus	541
Texas A & M University	507
University of Washington	486
Purdue University-Main Campus	470
University of Maryland-College Park	460
Massachusetts Institute of Technology	460
Columbia University in the City of New York	457
Cornell University-Endowed Colleges	449
Indiana University-Bloomington	440
Engineering	
Massachusetts Institute of Technology	198
Stanford University	181
University of Michigan-Ann Arbor	179
Georgia Institute of Technology-Main Campus	159
University of Illinois at Urbana	141
University of California-Berkeley	139
Texas A & M University	135
The University of Texas at Austin	131
Purdue University-Main Campus	122
Pennsylvania State University-Main Campus	110
University of Wisconsin-Madison	104
University of Minnesota-Twin Cities	91
Northwestern University	91
Virginia Polytechnic Institute and State Univ	86
Carnegie Mellon University	82
University of Maryland-College Park	81
Ohio State University-Main Campus	79
North Carolina State University at Raleigh	79
University of Southern California	79
Cornell University-Endowed Colleges	78

Institution	Number of doctorates
Physical Sciences [a]	
University of California-Berkeley	146
Massachusetts Institute of Technology	130
University of Michigan-Ann Arbor	110
University of Wisconsin-Madison	108
The University of Texas at Austin	107
University of Illinois at Urbana	102
Stanford University	102
University of California-Los Angeles	100
University of Minnesota-Twin Cities	96
University of Arizona	95
University of Washington	94
Purdue University-Main Campus	91
University of Maryland-College Park	88
Columbia University in the City of New York	87
Texas A & M University	85
Ohio State University-Main Campus	83
University of Colorado at Boulder	83
Cornell University-Endowed Colleges	80
University of California-San Diego	78
Harvard University	77
Life Sciences	
University of Wisconsin-Madison	211
Johns Hopkins University	170
University of Minnesota-Twin Cities	168
University of California-Davis	157
Harvard University	148
Ohio State University-Main Campus	147
University of North Carolina at Chapel Hill	133
University of California-Berkeley	131
University of Washington	129
Cornell University-Endowed Colleges	128
Texas A & M University	124
University of California-Los Angeles	124
University of Florida	122
Purdue University-Main Campus	120
University of Michigan-Ann Arbor	119
Pennsylvania State University-Main Campus	115
Michigan State University	113
University of Illinois at Urbana	107
University of Pennsylvania	106
University of Arizona	94

Table 3. Top 20 doctorate-granting institutions, by broad field of doctorate, 2000 (continued)

Institution	Number of doctorates
Social Sciences[b]	
University of California-Berkeley	128
Harvard University	117
University of Chicago	116
The University of Texas at Austin	101
Columbia University in the City of New York	98
University of Michigan-Ann Arbor	96
Ohio State University-Main Campus	91
University of Minnesota-Twin Cities	89
University of California-Los Angeles	87
Stanford University	87
University of Maryland-College Park	87
University of Wisconsin-Madison	85
University of Illinois at Urbana	83
University of Pennsylvania	79
University of North Carolina at Chapel Hill	78
Nova Southeastern University	78
University of Georgia	74
Pennsylvania State University-Main Campus	73
Indiana University-Bloomington	71
University of Southern California	71
The Fielding Institute	71
Education	
Nova Southeastern University	396
Teachers College at Columbia University	124
University of Sarasota	112
Ohio State University-Main Campus	105
The University of Texas at Austin	103
University of Georgia	103
University of Minnesota-Twin Cities	99
Pennsylvania State University-Main Campus	97
Loyola University of Chicago	86
University of California-Los Angeles	82
Temple University	78
Indiana University-Bloomington	73
University of Wisconsin-Madison	72
University of Illinois at Urbana	71
Virginia Polytechnic Institute and State Univ	71
University of San Francisco	71
Michigan State University	69
Texas A & M University	69
Northern Illinois University	69
University of Virginia-Main Campus	68

Institution	Number of doctorates
Humanities	
University of California-Berkeley	140
Indiana University-Bloomington	138
New York University	133
University of Chicago	121
Columbia University in the City of New York	114
Harvard University	113
The University of Texas at Austin	113
Yale University	113
University of California-Los Angeles	112
University of Wisconsin-Madison	106
University of Minnesota-Twin Cities	104
University of Michigan-Ann Arbor	102
University of Washington	95
CUNY Graduate School and University Center	88
University of Maryland-College Park	81
University of Iowa	81
University of North Carolina at Chapel Hill	77
University of Southern California	77
Cornell University-Endowed Colleges	77
University of Pennsylvania	74
Professional/Other Fields	
Nova Southeastern University	79
The University of Texas at Austin	46
Michigan State University	45
University of Wisconsin-Madison	42
University of Pennsylvania	39
University of Minnesota-Twin Cities	37
New York University	36
Arizona State University-Main Campus	35
Columbia University in the City of New York	35
Massachusetts Institute of Technology	35
University of Southern California	33
Ohio State University-Main Campus	31
University of Illinois at Urbana	31
University of North Carolina at Chapel Hill	30
Pennsylvania State University-Main Campus	29
Harvard University	29
University of California-Berkeley	29
Southwestern Baptist Theological Seminary	29
Walden University	28
University of Michigan-Ann Arbor	28

[a] Includes mathematics and computer sciences.
[b] Includes psychology.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 4. Number of doctorate recipients by state, including the District of Columbia and Puerto Rico, 2000

Rank	State	Number of doctorates
1.	California	4,706
2.	New York	3,528
3.	Texas	2,545
4.	Illinois	2,181
5.	Massachusetts	2,104
6.	Pennsylvania	2,101
7.	Florida	1,889
8.	Ohio	1,795
9.	Michigan	1,482
10.	Indiana	1,169
11.	North Carolina	1,109
12.	Virginia	1,039
13.	Maryland	954
14.	Georgia	936
15.	New Jersey	883
16.	Wisconsin	869
17.	Minnesota	830
18.	Colorado	744
19.	Arizona	738
20.	Missouri	722
21.	Tennessee	681
22.	Washington	634
23.	Connecticut	618
24.	Louisiana	609
25.	Iowa	566
26.	District of Columbia	537
27.	Alabama	518
28.	Kansas	416
29.	South Carolina	401
[30.	Oklahoma	382
30.	Oregon	382
32.	Kentucky	352
33.	Mississippi	351
34.	Utah	348
35.	Nebraska	297
36.	New Mexico	272
37.	Rhode Island	242
38.	Delaware	184
39.	Hawaii	152
40.	West Virginia	134
41.	Puerto Rico	130
42.	Arkansas	129
43.	Nevada	115
44.	Idaho	99
45.	New Hampshire	87
46.	South Dakota	79
47.	Wyoming	72
[48.	Montana	65
48.	Vermont	65
50.	North Dakota	58
51.	Maine	49
52.	Alaska	20

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 5. Major field of doctorate recipients for selected years, 1970-2000

Field	1970	1975	1980	1985	1990	1995	2000
All Fields	29,498	32,952	31,020	31,297	36,067	41,742	41,368
Physical Sciences [a]	5,628	4,857	4,111	4,531	5,859	6,808	6,077
Engineering	3,434	3,002	2,479	3,166	4,894	6,008	5,330
Life Sciences	4,693	5,026	5,461	5,780	6,605	7,917	8,529
Social Sciences	4,566	6,066	5,855	5,765	6,093	6,635	7,115
Humanities	4,278	5,046	3,872	3,429	3,822	5,061	5,634
Education	5,857	7,360	7,586	6,733	6,510	6,649	6,420
Professional/Other Fields	1,042	1,595	1,656	1,893	2,284	2,664	2,263 [c]
Physical Sciences							
Physics & Astronomy	1,655	1,300	983	1,080	1,393	1,652	1,392
Chemistry	2,238	1,776	1,538	1,836	2,100	2,162	1,990
Earth, Atmos., & Marine Science	510	634	628	617	769	807	786
Mathematics	1,225	1,147	744	688	892	1,190	1,048
Computer Sciences [b]	-	-	218	310	705	997	861
Engineering	3,434	3,002	2,479	3,166	4,894	6,008	5,330
Life Sciences							
Biological Sciences	3,361	3,497	3,803	3,793	4,328	5,375	5,855
Health Sciences	414	462	586	729	956	1,330	1,589
Agricultural Sciences	918	1,067	1,072	1,258	1,321	1,212	1,085
Social Sciences							
Psychology	1,890	2,751	3,098	3,118	3,281	3,429	3,623
Anthropology	217	386	370	353	324	375	446
Economics	853	895	767	811	862	979	948
Political Sci./International Rel.	636	862	585	484	559	673	747
Sociology	505	680	600	461	428	540	615
Other Social Sciences	465	492	435	538	639	639	736
Humanities							
History	1,091	1,183	745	543	612	889	1,060
Amer. & Eng. Lang. & Lit.	1,098	1,290	952	729	796	1,079	1,070
Foreign Lang. & Lit.	647	826	535	435	512	639	641
Other Humanities	1,442	1,747	1,640	1,722	1,902	2,454	2,863
Education							
Teacher Education	563	570	639	463	419	390	260
Teaching Fields	1,384	1,417	1,471	1,118	922	924	828
Other Education	3,910	5,373	5,476	5,152	5,169	5,335	5,332
Professional/Other Fields							
Business & Management	584	787	640	790	1,036	1,327	1,071
Communications	27	264	270	266	323	380	389
Other Professional Fields	277	524	724	812	858	931	797
Other Fields	154	20	22	25	67	26	1

[a] Includes mathematics and computer sciences.
[b] Computer sciences first appeared on the survey form in 1978.
[c] Includes 5 persons for whom field was unknown.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 6. Doctorate recipients and percent earned by females, by selected subfields, 1990 and 2000

Subfield	1990		2000	
	Number of doctorate recipients	Percent doctorate recipients to females	Number of doctorate recipients	Percent doctorate recipients to females
All Fields	36,067	36.3	41,368	43.8
Physical Sciences	5,859	18.3	6,077	24.1
Physics & Astronomy	1,393	10.8	1,392	14.7
Chemistry	2,100	24.0	1,990	31.4
Earth, Atmos. & Marine Sci.	769	19.4	786	30.3
Mathematics	892	17.7	1,048	24.6
Computer Science	705	15.6	861	16.5
Engineering	4,894	8.5	5,330	15.7
Life Sciences	6,605	37.6	8,529	46.9
Biological Sciences	4,328	37.3	5,855	44.8
Health Sciences	956	61.9	1,589	66.9
Agricultural Sciences	1,321	20.7	1,085	28.8
Social Sciences	6,093	46.4	7,115	54.5
Psychology	3,281	58.3	3,623	66.6
Anthropology	324	53.4	446	56.5
Economics	862	20.1	948	26.9
Political Sciences & International Rel.	559	22.0	747	35.1
Sociology	428	48.4	615	59.5
Other Social Sciences	639	37.2	736	44.8
Humanities	3,822	45.7	5,634	50.2
History	612	33.0	1,060	38.3
Amer. & Eng. Lang. & Lit.	796	55.8	1,070	58.1
For. Lang. & Lit.	512	59.4	641	61.5
Other Humanities	1,902	42.0	2,863	49.2
Education	6,510	57.6	6,420	64.9
Teacher Education	419	69.9	260	72.7
Teaching Fields	922	52.7	828	60.3
Other Education	5,169	57.5	5,332	65.2
Professional/Other Fields	2,284	35.6	2,263	41.7
Business & Management	1,036	25.6	1,071	31.7
Communications	323	44.6	389	53.5
Other Professional Fields	858	42.7	797	49.3
Other Fields	67	56.7	6	33.3

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 7. Number and percent of doctorate recipients, by sex within broad field for selected years, 1970-2000

Fields		1970		1975		1980		1985		1990		1995		2000	
		N	%	N	%	N	%	N	%	N	%	N	%	N	%
All Fields	Group Total	29,498	100.0	32,952	100.0	31,020	100.0	31,297	100.0	36,067[a]	100.0	41,742[b]	100.0	41,368[c]	100.0
	Male	25,527	86.5	25,751	78.1	21,612	69.7	20,553	65.7	22,960	63.7	25,158	60.3	23,173	56.0
	Female	3,971	13.5	7,201	21.9	9,408	30.3	10,744	34.3	13,106	36.3	16,414	39.3	18,121	43.8
Physical Sciences[d]	Group Total	5,628	100.0	4,857	100.0	4,111	100.0	4,531	100.0	5,859	100.0	6,778	100.0	6,062	100.0
	Male	5,308	94.3	4,454	91.7	3,609	87.8	3,817	84.2	4,789	81.7	5,279	77.9	4,596	75.8
	Female	320	5.7	403	8.3	502	12.2	714	15.8	1,070	18.3	1,499	22.1	1,466	24.2
Engineering	Group Total	3,434	100.0	3,002	100.0	2,479	100.0	3,166	100.0	4,894	100.0	5,966	100.0	5,302	100.0
	Male	3,419	99.6	2,950	98.3	2,389	96.4	2,968	93.7	4,479	91.5	5,270	88.3	4,463	84.2
	Female	15	0.4	52	1.7	90	3.6	198	6.3	415	8.5	696	11.7	839	15.8
Life Sciences	Group Total	4,693	100.0	5,026	100.0	5,461	100.0	5,780	100.0	6,605	100.0	7,875	100.0	8,521	100.0
	Male	4,084	87.0	4,031	80.2	4,047	74.1	3,910	67.6	4,124	62.4	4,545	57.7	4,524	53.1
	Female	609	13.0	995	19.8	1,414	25.9	1,870	32.4	2,481	37.6	3,330	42.3	3,997	46.9
Social Sciences	Group Total	4,566	100.0	6,066	100.0	5,855	100.0	5,765	100.0	6,093	100.0	6,613	100.0	7,106	100.0
	Male	3,829	83.9	4,544	74.9	3,810	65.1	3,388	58.8	3,266	53.6	3,242	49.0	3,227	45.4
	Female	737	16.1	1,522	25.1	2,045	34.9	2,377	41.2	2,827	46.4	3,371	51.0	3,879	54.6
Humanities	Group Total	4,278	100.0	5,046	100.0	3,872	100.0	3,429	100.0	3,822	100.0	5,053	100.0	5,629	100.0
	Male	3,296	77.0	3,359	66.6	2,339	60.4	1,940	56.6	2,074	54.3	2,607	51.6	2,799	49.7
	Female	982	23.0	1,687	33.4	1,533	39.6	1,489	43.4	1,748	45.7	2,446	48.4	2,830	50.3
Education	Group Total	5,857	100.0	7,360	100.0	7,586	100.0	6,733	100.0	6,510	100.0	6,639	100.0	6,417	100.0
	Male	4,671	79.8	5,065	68.8	4,203	55.4	3,242	48.2	2,758	42.4	2,547	38.4	2,250	35.1
	Female	1,186	20.2	2,295	31.2	3,383	44.6	3,491	51.8	3,752	57.6	4,092	61.6	4,167	64.9
Professional/Other	Group Total	1,042	100.0	1,595	100.0	1,656	100.0	1,893	100.0	2,283	100.0	2,648	100.0	2,257	100.0
	Male	920	88.3	1,348	84.5	1,215	73.4	1,288	68.0	1,470	64.4	1,668	63.0	1,314	58.2
	Female	122	11.7	247	15.5	441	26.6	605	32.0	813	35.6	980	37.0	943	41.8

[a] Group total for 1990 includes 1 individual of unknown sex.
[b] Group total for 1995 includes 170 individuals of unknown sex.
[c] Group total for 2000 includes 74 individuals of unknown sex.
[d] Includes mathematics and computer sciences.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 8. Number of U.S. citizen doctorate recipients, by race/ethnicity within broad field for selected years, 1980-2000

Fields	Race/Ethnicity	1980	1985	1990	1995	2000
All Fields	Group Total	25,225	23,377	24,905	27,740	27,888
	Known Race/Ethnicity	23,977	22,885	24,531	27,433	27,300
	Asian[b]	458	517	641	1,141	1,407
	Black	1,031	912	901	1,307	1,656
	Hispanic	417	581	721	912	1,157
	American Indian[c]	75	96	97	148	169
	White	21,996	20,779	22,171	23,925	22,911
Physical Sciences[a]	Group Total	3,072	3,051	3,408	3,653	3,260
	Known Race/Ethnicity	2,847	2,949	3,326	3,595	3,183
	Asian[b]	75	100	111	223	200
	Black	25	30	27	52	86
	Hispanic	27	42	85	86	113
	American Indian[c]	5	4	5	9	17
	White	2,715	2,773	3,098	3,225	2,767
Engineering	Group Total	1,255	1,279	1,957	2,386	2,206
	Known Race/Ethnicity	1,173	1,224	1,918	2,337	2,153
	Asian[b]	73	90	157	255	247
	Black	11	19	28	54	76
	Hispanic	18	16	39	60	68
	American Indian[c]	3	1	4	9	8
	White	1,068	1,098	1,690	1,959	1,754
Life Sciences	Group Total	4,416	4,467	4,609	5,001	5,508
	Known Race/Ethnicity	4,169	4,378	4,543	4,947	5,393
	Asian[b]	102	129	154	264	402
	Black	65	70	74	158	194
	Hispanic	36	75	104	143	208
	American Indian[c]	7	19	9	27	26
	White	3,959	4,085	4,202	4,355	4,563
Social Sciences	Group Total	4,993	4,580	4,666	5,052	5,437
	Known Race/Ethnicity	4,770	4,475	4,595	5,008	5,309
	Asian[b]	79	62	86	168	219
	Black	180	174	182	242	346
	Hispanic	95	121	171	209	260
	American Indian[c]	13	18	24	31	40
	White	4,403	4,100	4,132	4,358	4,444
Humanities	Group Total	3,396	2,860	3,093	3,981	4,421
	Known Race/Ethnicity	3,240	2,796	3,047	3,926	4,319
	Asian[b]	40	44	35	92	141
	Black	96	67	72	106	160
	Hispanic	80	97	112	131	187
	American Indian[c]	3	8	8	19	21
	White	3,021	2,580	2,820	3,578	3,810
Education	Group Total	6,749	5,778	5,634	5,777	5,532
	Known Race/Ethnicity	6,496	5,703	5,581	5,744	5,441
	Asian[b]	65	69	67	84	127
	Black	591	477	456	583	680
	Hispanic	145	181	179	235	271
	American Indian[c]	43	40	37	41	51
	White	5,652	4,936	4,842	4,801	4,312
Professional/Other	Group Total	1,344	1,362	1,538	1,890	1,524
	Known Race/Ethnicity	1,282	1,340	1,521	1,876	1,502
	Asian[b]	24	23	31	55	71
	Black	63	75	62	112	114
	Hispanic	16	29	31	48	50
	American Indian[c]	1	6	10	12	8
	White	1,178	1,207	1,387	1,849	1,261

[a] Includes mathematics and computer sciences.
[b] Includes Pacific Islander.
[c] Includes Alaskan Native.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 9. Major field of U.S. citizen doctorate recipients, by race/ethnicity, 2000

Field	Total U.S. Citizen Ph.D.s	Number with Known Race/ Ethnicity	U.S. Citizens				
			Asian[a]	Black	Hispanic	American Indian[b]	White
All Fields	27,888	27,300	1,407	1,656	1,157	169	22,911
Physical Sciences	3,260	3,183	200	86	113	17	2,767
Physics & Astronomy	750	734	54	16	22	2	640
Chemistry	1,116	1,089	48	36	48	7	950
Earth, Atmos., & Marine Sci.	494	478	12	7	19	5	435
Mathematics	513	506	44	14	13	2	433
Computer Sciences	387	376	42	13	11	1	309
Engineering	2,206	2,153	247	76	68	8	1,754
Life Sciences	5,508	5,393	402	194	208	26	4,563
Biological Sciences	3,895	3,809	330	115	154	17	3,193
Health Sciences	1,113	1,093	55	67	33	4	934
Agricultural Sciences	500	491	17	12	21	5	436
Social Sciences	5,437	5,309	219	346	260	40	4,444
Psychology	3,146	3,085	124	188	187	22	2,564
Anthropology	359	343	9	19	9	5	301
Economics	393	384	24	11	12	-	337
Political Sci./International Rel.	577	555	23	38	20	2	472
Sociology	468	460	19	52	23	6	360
Other Social Sciences	494	482	20	38	9	5	410
Humanities	4,421	4,319	141	160	187	21	3,810
History	910	883	23	37	36	10	777
Amer. & Eng. Lang. & Lit.	952	936	31	44	28	2	831
Foreign Lang. & Lit.	434	426	19	5	62	1	339
Other Humanities	2,125	2,074	68	74	61	8	1,863
Education	5,532	5,441	127	680	271	51	4,312
Teacher Education	206	204	3	19	10	4	168
Teaching Fields	664	655	27	56	21	5	546
Other Education	4,662	4,582	97	605	240	42	3,598
Professional/Other	1,524	1,502	71	114	50	6	1,261
Business & Management	669	657	43	37	19	4	554
Communications	286	283	4	20	9	1	249
Other Professional Fields	568	561	23	57	22	1	458
Other Fields	1	1	1	-	-	-	-

NOTE: See technical notes in Appendix C for the rate of nonresponse to the survey question on race/ethnicity.
[a] Includes Pacific Islander.
[b] Includes Alaskan Native.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 10. Leading doctorate-granting institutions of U.S. minority doctorate recipients, by racial/ethnic group, 1996-2000

Institution	Number of doctorate recipients	Institution	Number of doctorate recipients
Asian[a]		**Black**	
University of California-Berkeley	330	Nova Southeastern University	287
University of California-Los Angeles	311	Howard University	241
Stanford University	197	University of Michigan-Ann Arbor	144
Harvard University	144	Ohio State University	139
Massachusetts Institute of Technology	144	University of Maryland-College Park	116
University of Michigan-Ann Arbor	137	Virginia Polytechnic Institute and State Univ	116
University of California-Davis	125	Wayne State University	111
University of Illinois at Urbana-Champaign	121	Florida State University	101
Columbia University in the City of New York	117	Temple University	101
University of Washington-Seattle Campus	108	University of Illinois at Urbana-Champaign	97
University of Southern California	107	University of North Carolina-Chapel Hill	94
Purdue University-Main Campus	101	Teachers College at Columbia Univ	93
University of California-Irvine	90	North Carolina State Univ-Raleigh	93
New York University	87	The University of Texas at Austin	88
University of Pennsylvania	85	University of California-Los Angeles	86
Johns Hopkins University	84	Michigan State University	86
University of Wisconsin-Madison	83	Clark Atlanta University	85
University of Hawaii at Manoa	82	Univ of South Carolina-Columbia	82
Northwestern University	80	Harvard University	81
University of Maryland-College Park	78	University of Pennsylvania	79
Top 20 Institutions	*2,611*	*Top 20 Institutions*	*2,320*
Total Institutions Reported (320)	*6,297*	*Total Institutions Reported (327)*	*7,394*
Hispanic		**American Indian[b]**	
The University of Texas at Austin	202	Oklahoma State University	32
University of Puerto Rico-Rio Piedras Campus	193	University of Oklahoma	22
Carlos Albizu University-Puerto Rico	160	The University of Texas at Austin	19
University of California-Berkeley	146	University of Washington-Seattle Campus	19
University of California-Los Angeles	122	University of California-Los Angeles	17
Texas A & M University	112	Nova Southeastern University	15
Harvard University	89	University of Michigan-Ann Arbor	15
University of New Mexico	84	Pennsylvania State University-Main Campus	15
Stanford University	84	Univ of Arkansas Main Campus	14
University of Michigan-Ann Arbor	83	University of Minnesota-Twin Cities	14
University of Arizona	80	University of Georgia	13
Arizona State University-Main Campus	79	University of Wisconsin-Madison	13
University of Wisconsin-Madison	79	Stanford University	13
Inter American Univ of Puerto Rico-Metro	76	University of California-Berkeley	12
University of California-Davis	74	University of Maryland-College Park	12
Pennsylvania State University-Main Campus	70	University of New Mexico	12
University of Miami	68	North Carolina State Univ-Raleigh	11
University of Southern California	64	University of North Dakota	11
New York University	63	Northern Arizona University	10
University of California-Santa Barbara	61	Montana State University-Bozeman	10
		Ohio State University	10
Top 20 Institutions	*1,989*	*Top 20 Institutions*	*309*
Total Institutions Reported (318)	*5,513*	*Total Institutions Reported (230)*	*928*

[a] Includes Pacific Islander.
[b] Includes Alaskan Native.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 11. Citizenship status of doctorate recipients, by broad field for selected years, 1970-2000

Field/Citizenship	1970	1975	1980	1985	1990	1995	2000
Total	29,498	32,952	31,020	31,297	36,067	41,742	41,368
All Fields							
U.S. Citizen	24,917	27,106	25,225	23,377	24,905	27,740	27,888
Non-U.S., Permanent Visa	1,576	1,713	1,290	1,324	1,698	4,318	1,949
Non-U.S., Temporary Visa	2,572	3,536	3,644	5,227	8,093	8,810	9,648
Unknown	433	597	861	1,369	1,371	874	1,883
Physical Sciences [a]							
U.S. Citizen	4,631	3,662	3,072	3,051	3,408	3,653	3,260
Non-U.S., Permanent Visa	354	349	252	233	293	1,169	359
Non-U.S., Temporary Visa	568	750	688	1,066	1,939	1,850	2,161
Unknown	75	96	99	181	219	136	297
Engineering							
U.S. Citizen	2,514	1,717	1,255	1,279	1,957	2,386	2,206
Non-U.S., Permanent Visa	430	418	299	315	389	956	350
Non-U.S., Temporary Visa	471	815	851	1,419	2,277	2,524	2,444
Unknown	19	52	74	153	271	142	330
Life Sciences							
U.S. Citizen	3,766	3,925	4,416	4,467	4,609	5,001	5,508
Non-U.S., Permanent Visa	242	312	229	190	287	1,061	503
Non-U.S., Temporary Visa	650	689	714	925	1,526	1,725	2,189
Unknown	35	100	102	198	183	130	329
Social Sciences							
U.S. Citizen	3,886	5,186	4,993	4,580	4,666	5,052	5,437
Non-U.S., Permanent Visa	224	214	195	210	245	400	251
Non-U.S., Temporary Visa	399	546	486	666	911	1,023	1,039
Unknown	57	120	181	309	271	160	388
Humanities							
U.S. Citizen	3,835	4,497	3,396	2,860	3,093	3,981	4,421
Non-U.S., Permanent Visa	202	222	136	150	196	336	252
Non-U.S., Temporary Visa	162	225	206	264	420	648	740
Unknown	79	102	134	155	113	96	221
Education							
U.S. Citizen	5,540	6,807	6,749	5,778	5,634	5,777	5,532
Non-U.S., Permanent Visa	72	118	112	130	153	218	124
Non-U.S., Temporary Visa	201	347	507	570	501	502	541
Unknown	44	88	218	255	222	152	223
Professional/Other Fields							
U.S. Citizen	745	1,312	1,344	1,362	1,538	1,890	1,524
Non-U.S., Permanent Visa	52	80	67	96	135	178	110
Non-U.S., Temporary Visa	121	164	192	317	519	536	534
Unknown	124	39	53	118	92	58	95

[a] Includes mathematics and computer sciences

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 12. Top 30 countries of origin of non-U.S. citizens earning doctorates at U.S. colleges and universities (ranked by number of doctorate recipients), 2000

Rank	Country	Number of doctorate recipients	Rank	Country	Number of doctorate recipients
1.	China, People's Republic of [a]	2,594	16.	Italy	111
2.	Korea	1,048	17.	Spain	106
3.	India	985	18.	Greece	100
4.	China, Republic of (Taiwan)	936	19.	Argentina	95
5.	Canada	514	20.	Iran	88
6.	Turkey	320	20.	Venezuela	88
7.	Japan	297	20.	Egypt	88
8.	Germany	288	23.	Saudi Arabia	84
9.	Mexico	248	24.	Jordan	82
10.	Russia	235	25.	Yugoslavia	81
11.	Thailand	223	26.	Indonesia	74
12.	Great Britain, UK	181	27.	Malaysia	73
13.	Brazil	171	28.	Australia	71
14.	France	121	29.	Colombia	70
15.	Romania	118	30.	Israel	65

[a] Includes Hong Kong

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 13. Top 20 institutions in the number of doctorate recipients who were non-U.S. citizens, 2000

Institution	Number of doctorate recipients	Institution	Number of doctorate recipients
Ohio State University	269	University of California-Berkeley	176
University of Illinois at Urbana-Champaign	242	Columbia University	176
The University of Texas at Austin	223	University of California-Los Angeles	174
University of Minnesota-Twin Cities	217	Stanford University	174
Purdue University-Main Campus	215	Michigan State University	157
Texas A & M University	214	Harvard University	150
University of Wisconsin-Madison	208	University of Florida	148
University of Michigan-Ann Arbor	200	University of Maryland-College Park	148
Cornell University-Endowed Colleges	199	Rutgers University-New Brunswick	147
Pennsylvania State University-Main Campus	194	University of Southern California	139
		Top 20 institutions	*3,770*
		Total institutions reported (334)	*11,597*

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 14. Top 20 institutions in the percentage of doctorate recipients who were non-U.S. citizens, 2000

Institution [a]	Percent [b]	Institution [a]	Percent [b]
New Jersey Institute of Technology	82.2	Rockefeller University	52.6
Polytechnic University	79.4	Carnegie Mellon University	51.9
Clarkson University	78.9	Mount Sinai School of Medicine	51.9
Illinois Institute of Technology	73.1	Michigan Technological University	48.8
Medical College of Ohio	70.8	Iowa State University	48.7
Stevens Institute of Tech	68.0	Drexel University	48.6
Worcester Polytechnic Institute	64.7	Loma Linda University	46.2
University of Missouri-Rolla	64.4	The University of Texas Health Science Center	46.0
Northeastern University	60.6	Purdue University-Main Campus	45.7
Rutgers University-Newark	56.1	University of Central Florida	45.5

[a] The ranking excludes institutions with fewer than 10 non-U.S. citizen doctorate recipients.
[b] The percent column is based on the number of non-U.S. citizens as a percentage of the total doctorates awarded by that institution.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 15. Parental educational attainment of doctorate recipients, 2000

	Percent High School or Less	Percent College	Percent Advanced Degree	Total Percent	Total Number
Total					
Father's Education	30.9	35.0	34.1	100.0	37,405
Mother's Education	40.2	39.2	20.6	100.0	37,506
Sex					
Male					
Father's Education	31.5	34.7	33.8	100.0	20,980
Mother's Education	42.1	38.0	19.8	100.0	21,028
Female					
Father's Education	30.2	35.4	34.4	100.0	16,425
Mother's Education	37.6	40.8	21.6	100.0	16,478
Race/Ethnicity (U.S. citizens only)					
Asian[a]					
Father's Education	23.2	30.1	46.7	100.0	1,338
Mother's Education	36.2	37.5	26.3	100.0	1,343
Black					
Father's Education	56.0	26.1	17.9	100.0	1,506
Mother's Education	48.5	33.4	18.1	100.0	1,538
Hispanic					
Father's Education	43.0	29.8	27.2	100.0	1,096
Mother's Education	49.5	34.9	15.6	100.0	1,104
American Indian[b]					
Father's Education	47.1	31.0	21.9	100.0	155
Mother's Education	53.8	31.6	14.6	100.0	158
White					
Father's Education	26.4	34.9	38.7	100.0	22,022
Mother's Education	33.1	43.1	23.8	100.0	22,052
Citizenship					
U.S. Citizen					
Father's Education	28.6	33.9	37.5	100.0	26,455
Mother's Education	34.9	41.8	23.3	100.0	26,535
Non-U.S., Permanent Visa					
Father's Education	33.0	35.5	31.4	100.0	1,837
Mother's Education	48.1	33.4	18.5	100.0	1,844
Non-U.S., Temporary Visa					
Father's Education	37.2	38.1	24.7	100.0	9,093
Mother's Education	53.9	32.9	13.2	100.0	9,106
Broad Field of Study					
Physical Sciences[c]					
Father's Education	26.7	35.8	37.5	100.0	5,510
Mother's Education	36.3	40.2	23.5	100.0	5,518
Engineering					
Father's Education	27.3	40.0	32.7	100.0	4,792
Mother's Education	41.9	40.2	17.9	100.0	4,799
Life Sciences					
Father's Education	28.5	36.6	35.0	100.0	7,858
Mother's Education	38.6	40.3	21.1	100.0	7,882
Social Sciences					
Father's Education	27.5	34.6	37.9	100.0	6,346
Mother's Education	34.3	40.8	24.8	100.0	6,365
Humanities					
Father's Education	25.5	32.3	42.2	100.0	5,148
Mother's Education	34.3	40.4	25.3	100.0	5,163
Education					
Father's Education	48.7	30.6	20.7	100.0	5,731
Mother's Education	54.2	33.7	12.0	100.0	5,753
Professional/Other Fields					
Father's Education	35.0	35.2	29.8	100.0	2,020
Mother's Education	45.7	38.0	16.3	100.0	2,026

NOTE: Details may not add to the total due to rounding.
[a] Includes Pacific Islander.
[b] Includes Alaskan Native.
[c] Includes mathematics and computer sciences.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 16. Median number of years from baccalaureate to doctorate award, by broad field for selected years, 1975-2000

	1975	1980	1985	1990	1995	2000
ALL FIELDS						
Total	8.7	9.3	10.3	10.6	10.9	10.3
Registered	6.0	6.3	6.9	7.0	7.2	7.4
PHYSICAL SCIENCES[a]						
Total	6.9	7.0	7.3	7.8	8.4	8.0
Registered	5.7	5.9	6.1	6.3	6.9	6.8
ENGINEERING						
Total	7.6	7.7	8.2	8.3	9.1	8.7
Registered	5.6	5.7	6.0	6.1	6.4	6.8
LIFE SCIENCES						
Total	7.2	7.4	8.5	9.1	9.5	9.0
Registered	5.8	6.0	6.4	6.8	7.0	7.0
SOCIAL SCIENCES						
Total	7.9	8.7	10.0	10.6	10.5	9.8
Registered	5.8	6.5	7.2	7.7	7.5	7.5
HUMANITIES						
Total	9.8	10.8	11.9	12.2	12.0	11.4
Registered	6.9	7.9	8.4	8.3	8.4	8.8
EDUCATION						
Total	12.6	13.2	15.2	18.0	20.0	19.4
Registered	6.5	7.0	7.7	8.0	8.2	8.1
PROFESSIONAL/OTHER FIELDS						
Total	10.4	11.0	13.0	13.3	13.5	14.0
Registered	6.2	6.5	7.3	7.6	7.6	8.0

[a] Includes mathematics and computer sciences.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 17. Median number of years from baccalaureate to doctorate award, by demographic group and broad field, 2000

	All Fields	Physical Sciences[a]	Engineering	Life Sciences	Social Sciences	Humanities	Education	Prof./ Other
ELAPSED TIME FROM BACCALAUREATE (YEARS)								
Total	10.3	8.0	8.7	9.0	9.8	11.4	19.4	14.0
Sex								
Male	9.9	8.0	8.8	8.9	10.0	11.8	18.8	13.7
Female	11.0	7.8	8.2	9.3	9.6	11.3	20.0	14.4
Citizenship								
U.S. Citizen	10.6	7.3	7.9	8.5	9.6	11.5	20.5	15.4
Non-U.S., Permanent Visa	11.0	10.1	10.1	11.0	11.4	11.8	15.0	12.5
Non-U.S., Temporary Visa	9.8	8.8	9.0	10.0	10.0	11.0	12.3	11.2
Race/Ethnicity (U.S. citizens only)								
Asian[b]	8.5	7.6	7.1	7.9	9.1	9.9	15.1	14.4
Black	13.5	7.9	8.0	9.1	10.0	10.6	21.0	15.0
Hispanic	10.4	8.0	8.6	8.9	9.0	11.0	17.7	13.0
American Indian[c]	12.0	6.5	11.1	9.8	10.8	14.5	21.1	19.0
White	10.6	7.3	8.0	8.6	9.7	11.6	20.7	15.6
REGISTERED TIME FROM BACCALAUREATE (YEARS)								
Total	7.4	6.8	6.8	7.0	7.5	8.8	8.1	8.0
Sex								
Male	7.3	6.8	6.8	6.9	7.5	8.6	8.0	8.0
Female	7.6	6.6	6.7	7.0	7.6	8.9	8.2	8.0
Citizenship								
U.S. Citizen	7.5	6.5	6.6	7.0	7.5	8.8	8.3	8.1
Non-U.S., Permanent Visa	7.9	7.8	7.3	7.7	8.5	9.3	8.8	8.8
Non-U.S., Temporary Visa	7.1	7.0	6.8	7.1	7.4	8.4	6.7	7.6
Race/Ethnicity (U.S. citizens only)								
Asian[b]	7.1	7.0	6.5	6.9	7.3	8.3	7.7	8.6
Black	7.8	6.8	7.0	7.6	7.6	8.5	8.0	7.9
Hispanic	7.7	7.1	7.1	7.1	7.6	8.6	8.0	8.0
American Indian[c]	8.0	6.6	8.3	7.0	7.3	10.6	9.0	6.4
White	7.5	6.5	6.5	6.9	7.5	8.9	8.3	8.2

[a] Includes mathematics and computer sciences.
[b] Includes Pacific Islander.
[c] Includes Alaskan Native.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 18. Distribution of doctorate recipients, by age at doctorate, 2000

Field of Study	Median age at doctorate	Age Grouping					
		21-25	26-30	31-35	36-40	41-45	Over 45
All Fields	33.6	243	12,665 [a]	11,359	5,823	3,618	5,601
Broad Field							
Physical Sciences [b]	30.8	66	2,936	1,714	632	217	189
Engineering	31.4	65	2,244	1,665	672	211	126
Life Sciences	32.1	44	3,263	2,487	1,176	627	576
Social Sciences	33.0	41	2,284	2,096	951	614	732
Humanities	34.8	8	1,142	1,877	981	609	763
Education	44.4	11	472	962	959	1,034	2,717
Professional/Other Fields	37.8	8	324	558	452	306	498
Sex							
Male	33.0	144	7,519	6,925	3,457	1,779	2,192
Female	34.5	99	5,145	4,434	2,366	1,839	3,409
Citizenship							
U.S. Citizen	34.0	153	8,917	6,837	3,770	2,807	5,114
Permanent Visa	34.6	9	435	705	413	211	135
Temporary Visa	32.6	79	3,244	3,759	1,599	573	307
Unknown	35.0	2	69	58	41	27	45
Race/Ethnicity (U.S. citizens only)							
Asian [c]	31.3	20	639	360	146	86	121
Black	38.4	6	379	301	247	217	491
Hispanic	34.6	7	321	321	182	123	194
American Indian [d]	40.0	1	34	26	28	32	45
White	33.9	115	7,403	5,697	3,098	2,279	4,185

[a] Includes 1 individual whose sex was not reported.
[b] Includes mathematics and computer sciences.
[c] Includes Pacific Islander.
[d] Includes Alaskan Native.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 19. Primary sources of financial support for doctorate recipients, by broad field and demographic group, 2000 (includes only doctorate recipients who reported primary source of support)

Primary Source of Support		Total	Sex		Citizenship			U.S. Citizens and Permanent Residents				
			Men	Women	U.S. Citizen	Perm Resident	Temp Resident	Asian[a]	Black	Hispanic	American Indian[b]	White
ALL FIELDS	N	41,368	23,173	18,121	27,888	1,949	9,648	2,315	1,775	1,279	189	23,851
Teaching assistantships	%	17.4	18.2	16.3	16.3	19.8	20.0	16.5	8.4	16.0	10.6	17.3
Research assistantships/Traineeships	%	24.9	29.9	18.6	18.9	33.6	40.7	34.8	9.4	12.5	10.6	19.6
Fellowships/Dissertation grants	%	18.8	18.5	19.2	19.3	18.8	17.4	23.6	30.2	28.4	24.8	17.5
Own resources	%	32.2	25.7	40.5	40.4	22.7	10.2	20.7	47.0	39.6	44.7	40.4
Foreign government	%	2.7	3.6	1.7	0.1	2.8	10.4	1.0	0.2	0.8	1.2	0.2
Employer	%	3.6	3.8	3.4	4.6	2.1	1.0	3.0	4.4	3.2	6.2	4.7
Other	%	0.3	0.3	0.4	0.4	0.2	0.2	0.4	0.4	0.5	1.9	0.3
PHYSICAL SCIENCES[c]	N	5,498	4,182	1,336	3,118	345	2,019	363	92	117	16	2,818
Teaching assistantships	%	27.6	27.4	28.1	24.3	31.6	31.9	28.4	20.7	19.7	12.5	25.4
Research assistantships/Traineeships	%	43.0	43.8	40.4	40.3	42.9	47.1	42.7	17.4	34.2	43.8	41.1
Fellowships/Dissertation grants	%	15.4	14.4	18.6	18.9	11.6	10.6	13.5	44.6	28.2	31.3	17.1
Own resources	%	9.4	9.0	10.5	13.0	11.0	3.5	11.6	15.2	12.8	12.5	13.0
Foreign government	%	2.3	2.7	1.2	0.1	1.4	8.0	0.6	1.1	0.9	0.0	0.1
Employer	%	2.2	2.5	1.1	3.2	1.4	0.6	3.0	1.1	4.3	0.0	3.1
Other	%	0.2	0.2	0.1	0.2	0.0	0.1	0.3	0.0	0.0	0.0	0.2
ENGINEERING	N	4,788	4,035	753	2,136	328	2,313	427	83	80	8	1,825
Teaching assistantships	%	8.4	8.5	8.0	5.9	10.4	10.3	8.2	6.0	8.8	0.0	8.1
Research assistantships/Traineeships	%	53.5	54.4	48.6	43.2	59.5	62.2	57.8	19.3	32.5	25.0	44.4
Fellowships/Dissertation grants	%	15.6	13.6	26.4	23.9	9.8	8.8	14.1	56.6	32.5	37.5	21.8
Own resources	%	12.3	12.6	10.4	18.1	13.7	6.7	13.8	14.5	12.5	25.0	18.7
Foreign government	%	5.6	6.0	3.7	0.1	3.4	11.1	0.5	0.0	5.0	0.0	0.4
Employer	%	4.5	4.8	2.8	8.5	3.4	0.9	5.6	3.6	8.8	12.5	8.3
Other	%	0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
LIFE SCIENCES	N	7,822	4,148	3,674	5,292	469	2,056	849	207	232	23	4,563
Teaching assistantships	%	10.8	11.4	10.1	10.6	10.7	11.2	9.7	6.8	9.1	13.0	10.9
Research assistantships/Traineeships	%	36.9	39.0	34.6	32.0	45.8	47.5	43.5	23.2	21.1	8.7	32.9
Fellowships/Dissertation grants	%	28.3	29.1	27.4	30.2	26.9	23.7	33.4	44.4	48.1	39.1	27.9
Own resources	%	18.1	14.5	22.2	23.3	13.2	6.0	9.9	23.7	20.7	30.4	24.3
Foreign government	%	3.0	3.6	2.2	0.1	2.1	10.4	0.9	0.0	0.9	0.0	0.2
Employer	%	2.8	2.1	3.1	3.3	1.3	1.1	2.3	1.4	2.2	8.7	3.3
Other	%	0.3	0.3	0.4	0.4	0.0	0.2	0.3	0.5	0.0	0.0	0.4
SOCIAL SCIENCES	N	6,303	2,880	3,423	5,106	231	964	293	343	257	38	4,332
Teaching assistantships	%	19.8	22.8	17.3	18.1	20.8	28.8	20.8	10.2	13.6	5.3	19.2
Research assistantships/Traineeships	%	13.6	12.3	14.7	13.8	11.7	13.2	14.3	9.9	5.8	10.5	14.5
Fellowships/Dissertation grants	%	19.5	20.8	18.5	17.7	23.8	28.3	28.3	36.2	24.5	39.5	15.0
Own resources	%	42.7	38.3	46.4	47.9	38.5	16.2	33.1	39.1	52.9	39.5	48.8
Foreign government	%	2.1	3.2	1.1	0.1	3.5	12.1	1.4	0.0	0.8	2.6	0.1
Employer	%	2.0	2.2	1.8	2.1	1.3	1.1	1.7	2.3	1.9	2.6	2.1
Other	%	0.3	0.4	0.2	0.3	0.4	0.2	0.3	0.3	0.4	0.0	0.3
HUMANITIES	N	5,120	2,536	2,584	4,215	230	670	189	182	213	21	3,780
Teaching assistantships	%	33.2	32.0	34.4	33.0	35.7	34.0	33.9	15.4	33.8	33.3	34.1
Research assistantships/Traineeships	%	1.4	1.2	1.5	1.2	1.3	2.2	1.1	4.3	1.9	0.0	1.0
Fellowships/Dissertation grants	%	23.8	23.3	24.3	22.8	23.9	30.1	33.3	43.2	26.8	14.3	21.2
Own resources	%	38.3	39.9	36.7	41.1	34.8	21.6	30.2	33.3	36.2	47.6	41.6
Foreign government	%	1.7	1.7	1.7	0.2	3.0	11.2	1.1	0.6	0.0	0.0	0.3
Employer	%	1.4	1.7	1.0	1.5	1.3	0.4	0.5	1.2	1.4	0.0	1.6
Other	%	0.2	0.1	0.3	0.2	0.0	0.3	0.0	1.9	0.0	4.8	0.1
EDUCATION	N	5,569	1,993	3,576	5,085	111	470	155	824	253	50	4,074
Teaching assistantships	%	6.5	6.6	6.4	5.8	13.5	11.9	9.0	3.2	6.3	4.0	6.4
Research assistantships/Traineeships	%	5.5	5.2	5.7	4.7	6.3	14.3	8.4	4.0	5.1	2.0	4.8
Fellowships/Dissertation grants	%	8.0	7.9	8.1	6.8	12.6	19.4	18.1	12.8	18.6	10.0	4.9
Own resources	%	66.6	65.0	70.8	72.3	56.6	33.2	58.7	72.4	63.2	66.0	72.9
Foreign government	%	1.6	2.6	1.0	0.1	3.6	17.2	0.6	0.2	0.4	2.0	0.1
Employer	%	9.0	12.0	7.3	9.6	3.6	3.2	3.9	7.1	4.3	12.0	10.4
Other	%	0.7	0.7	0.7	0.6	1.8	0.9	1.3	0.3	2.0	4.0	0.6
PROF/OTHER FIELDS	N	2,015	1,161	854	1,417	103	494	103	120	54	5	1,215
Teaching assistantships	%	19.4	21.4	16.7	17.1	21.4	25.5	19.4	15.8	13.0	20.0	17.8
Research assistantships/Traineeships	%	10.8	10.9	10.6	8.6	14.6	16.4	16.5	5.8	7.4	20.0	8.7
Fellowships/Dissertation grants	%	14.4	14.5	14.4	12.6	18.4	18.8	13.6	28.7	16.7	0.0	11.7
Own resources	%	45.1	41.4	50.1	54.1	33.0	21.9	39.8	42.5	59.3	60.0	54.0
Foreign government	%	4.1	5.1	2.7	0.1	4.9	15.2	4.9	0.0	0.0	0.0	0.1
Employer	%	5.8	6.3	5.0	7.1	6.6	1.8	3.9	9.2	3.7	0.0	7.4
Other	%	0.4	0.5	0.2	0.4	1.0	0.4	1.9	0.0	0.0	0.0	0.3

[a] Includes Pacific Islander.
[b] Includes Alaskan Native.
[c] Includes mathematics and computer sciences.

Source: NSF/NIH/NEH/USED/USDA/NASA, Survey of Earned Doctorates

Table 20. Cumulative debt related to the education of the doctorate recipients, by broad field, 2000

Cumulative Debt	Total		Physical Sciences[a]		Engineering		Life Sciences		Social Sciences		Humanities		Education		Prof/Other Fields	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
$5,000 or less	3,284	8.8	538	9.7	415	8.6	746	9.5	460	7.2	472	9.1	478	8.3	175	8.7
$5,001-$10,000	2,859	7.6	467	8.4	319	6.6	674	8.6	469	7.4	443	8.6	364	6.3	123	6.1
$10,001-$15,000	2,309	6.2	350	6.3	255	5.3	559	7.1	396	6.2	379	7.3	256	4.5	114	5.6
$15,001-$20,000	2,025	5.4	253	4.6	179	3.7	470	6.0	392	6.2	349	6.8	264	4.6	118	5.8
$20,001-$25,000	1,543	4.1	189	3.4	137	2.9	306	3.9	311	4.9	265	5.1	239	4.2	96	4.8
$25,001-$30,000	1,364	3.6	122	2.2	111	2.3	246	3.1	355	5.6	243	4.7	211	3.7	76	3.8
$30,000+	5,647	15.1	423	7.6	427	8.9	881	11.2	1,726	27.2	924	17.9	893	15.5	373	18.5
No debt	18,482	49.3	3,197	57.7	2,962	61.6	4,001	50.8	2,247	35.4	2,085	40.4	3,044	52.9	946	46.8
Total	37,513	100.0	5,539	100.0	4,805	100.0	7,883	100.0	6,356	100.0	5,160	100.0	5,749	100.0	2,021	100.0

[a] Includes mathematics and computer sciences.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 21. Cumulative debt related to the education of the doctorate recipients, by demographic group, 2000

Cumulative Debt	Sex				Citizenship						Race/Ethnicity (U.S. citizens and Permanent Residents)									
	Male		Female		U.S. citizen		Perm Visa		Temp Visa		Asian[a]		Black		Hispanic		Amer Indian[b]		White	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
$5,000 or less	1,918	9.1	1,366	8.3	2,258	8.5	127	6.9	896	9.9	156	7.1	162	9.7	107	8.8	10	6.2	1,924	8.4
$5,001-$10,000	1,645	7.8	1,214	7.4	2,236	8.4	103	5.6	518	5.7	173	7.9	135	8.1	104	8.6	14	8.6	1,882	8.3
$10,001-$15,000	1,303	6.2	1,006	6.1	1,876	7.1	95	5.2	334	3.7	148	6.7	122	7.3	75	6.2	4	2.5	1,591	7.0
$15,001-$20,000	1,117	5.3	908	5.5	1,730	6.5	69	3.8	222	2.5	115	5.2	112	6.7	76	6.3	14	8.6	1,460	6.4
$20,001-$25,000	840	4.0	703	4.3	1,325	5.0	43	2.3	174	1.9	85	3.9	79	4.8	87	7.2	11	6.8	1,099	4.8
$25,001-$30,000	722	3.4	642	3.9	1,180	4.4	43	2.3	139	1.5	55	2.5	124	7.5	75	6.2	8	4.9	942	4.1
$30,000+	2,945	14.0	2,702	16.4	4,750	17.9	159	8.7	732	8.1	244	11.1	499	30.0	282	23.2	38	23.5	3,785	16.6
No debt	10,569	50.2	7,912	48.1	11,234	42.3	1,192	65.1	6,031	66.7	1,223	55.6	430	25.9	409	33.7	63	38.9	10,097	44.3
Total	21,059	100.0	16,453	100.0	26,589	100.0	1,831	100.0	9,046	100.0	2,199	100.0	1,663	100.0	1,215	100.0	162	100.0	22,780	100.0

[a] Includes Pacific Islander
[b] Includes Alaskan Native

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 22. Postgraduation status of doctorate recipients, by broad field for selected years, 1980-2000

		All Fields	Physical Sciences[a]	Engineering	Life Sciences	Social Sciences	Humanities	Education	Prof/Other Fields
Total									
1980	N	31,020	4,111	2,479	5,461	5,855	3,872	7,586	1,656
1985	N	31,297	4,531	3,166	5,780	5,765	3,429	6,733	1,893
1990	N	36,067	5,859	4,894	6,605	6,093	3,822	6,510	2,284
1995	N	41,742	6,808	6,008	7,917	6,635	5,061	6,649	2,664
2000	N	41,388	6,077	5,330	8,529	7,115	5,634	6,420	2,263[b]
Total Responses to Postgraduation Status									
1980	N	28,748	3,837	2,262	5,099	5,418	3,542	7,050	1,540
1985	N	28,384	4,096	2,741	5,316	5,181	3,140	6,210	1,700
1990	N	32,709	5,275	4,304	6,076	5,497	3,488	5,993	2,076
1995	N	37,971	6,231	5,385	7,237	6,025	4,677	5,999	2,417
2000	N	37,551	5,527	4,796	7,916	6,370	5,159	5,747	2,036
Definite Commitments for Employment or Study									
1980	%	76.2	80.3	81.1	79.0	73.7	64.8	76.2	85.2
1985	%	73.8	77.9	72.3	75.6	70.6	64.7	75.1	82.6
1990	%	71.6	72.9	65.9	74.6	69.1	66.0	74.8	78.3
1995	%	65.8	64.3	57.0	70.4	65.3	58.1	72.9	73.3
2000	%	71.1	74.1	69.7	72.5	69.9	61.5	75.2	78.1
Seeking Employment or Study									
1980	%	23.8	19.7	18.9	21.0	26.3	35.2	23.8	14.8
1985	%	26.2	22.1	27.7	24.4	29.4	35.3	24.9	17.4
1990	%	28.4	27.1	34.1	25.4	30.9	34.0	25.4	21.7
1995	%	34.2	35.7	43.0	29.6	34.7	41.9	27.1	26.7
2000	%	28.9	25.9	30.3	27.5	30.1	38.5	24.8	21.9

[a] Includes mathematics and computer sciences.
[b] Includes 5 persons for whom field is unknown.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 23. Postgraduation status of doctorate recipients, by demographic group for selected years, 1980-2000

			Sex		Citizenship			U.S. Citizens & Permanent Residents				
		Total	Men	Women	U.S. Citizens	Perm Visas	Temp Visas	Asian[a]	Black	Hispanic	American Indian[b]	White
Total												
1980	N	31,020	21,612	9,408	25,225	1,290	3,844	1,102	1,104	490	75	22,464
1985	N	31,297	20,553	10,744	23,377	1,324	5,227	1,070	1,043	634	96	21,313
1990	N	36,067	22,960	13,106	24,905	1,698	8,093	1,306	1,050	837	97	22,878
1995	N	41,742	25,158	16,414	27,740	4,318	8,810	4,309	1,475	1,054	148	24,721
2000	N	41,368	23,173	18,121	27,888	1,949	9,648	2,315	1,775	1,279	169	23,651
Total Responses to Postgraduation Status												
1980	N	28,748	20,033	8,715	24,181	1,223	3,317	1,053	1,040	468	71	21,859
1985	N	28,384	18,553	9,831	22,443	1,244	4,677	1,006	972	605	93	20,665
1990	N	32,709	20,690	12,018	23,811	1,548	7,289	1,191	958	786	91	22,014
1995	N	37,971	22,955	15,011	26,075	3,887	7,984	3,907	1,312	971	139	23,399
2000	N	37,551	21,072	16,479	26,617	1,828	9,061	2,196	1,653	1,220	162	22,804
Definite Commitments for Employment or Study												
1980	%	76.2	78.3	71.5	77.1	66.6	73.8	69.8	73.7	69.0	80.3	77.2
1985	%	73.8	75.7	70.3	75.2	61.3	70.3	65.7	68.7	70.7	76.3	75.4
1990	%	71.6	72.0	70.8	74.7	59.2	64.1	63.1	69.6	67.9	65.9	74.8
1995	%	65.8	65.2	66.7	69.7	53.6	58.9	56.9	67.8	65.8	67.6	69.5
2000	%	71.1	72.5	69.4	72.9	62.1	67.7	66.0	67.6	71.4	72.8	73.4
Seeking Employment or Study												
1980	%	23.8	21.7	28.5	22.9	33.4	26.2	30.2	26.3	31.0	19.7	22.8
1985	%	26.2	24.3	29.7	24.8	38.7	29.7	34.3	31.3	29.3	23.7	24.6
1990	%	28.4	28.0	29.2	25.3	40.8	35.9	36.9	30.4	32.1	34.1	25.2
1995	%	34.2	34.8	33.3	30.3	46.4	41.1	43.1	32.2	34.2	32.4	30.5
2000	%	28.9	27.5	30.6	27.1	37.9	32.3	34.0	32.4	28.6	27.2	26.6

[a] Includes Pacific Islander.
[b] Includes Alaskan Native.

Source: NSF/NIH/NEH/USED/USDA/NASA, Survey of Earned Doctorates

Table 24. Postgraduation commitments of doctorate recipients, by type of plans and broad field for selected years, 1980-2000

		All Fields	Physical Sciences*	Engineering	Life Sciences	Social Sciences	Humanities	Education	Prof/Other Fields
All Definite Commitments									
1980	N	21,920	3,083	1,834	4,030	3,994	2,296	5,371	1,312
1985	N	20,952	3,190	1,983	4,018	3,660	2,031	4,665	1,405
1990	N	23,413	3,846	2,835	4,534	3,800	2,303	4,470	1,625
1995	N	24,972	4,007	3,068	5,094	3,937	2,719	4,375	1,772
2000	N	26,711	4,094	3,342	5,740	4,454	3,171	4,319	1,591
Definite Commitments with Responses to Type of Plans									
1980	N	21,824	3,078	1,827	4,009	3,983	2,281	5,338	1,308
1985	N	20,868	3,180	1,977	4,012	3,644	2,022	4,639	1,394
1990	N	23,299	3,842	2,822	4,525	3,780	2,281	4,428	1,621
1995	N	24,816	3,988	3,060	5,079	3,907	2,690	4,329	1,763
2000	N	26,589	4,078	3,328	5,708	4,439	3,160	4,293	1,585
Employment									
1980	%	80.3	64.0	87.7	45.7	86.9	94.9	97.7	97.7
1985	%	77.7	59.1	85.1	44.7	85.2	94.1	96.9	97.6
1990	%	73.6	53.3	80.7	37.1	84.2	93.6	96.0	96.6
1995	%	70.3	48.5	75.1	35.3	78.6	92.0	96.1	96.7
2000	%	71.3	54.7	78.8	39.5	75.8	91.5	95.2	95.3
Study									
1980	%	19.7	36.0	12.3	54.3	13.1	5.1	2.3	2.3
1985	%	22.3	40.9	14.9	55.3	14.8	5.9	3.1	2.4
1990	%	26.4	46.7	19.3	62.9	15.8	6.4	4.0	3.4
1995	%	29.7	51.5	24.9	64.7	21.4	8.0	3.9	3.3
2000	%	28.7	45.3	21.2	60.5	24.2	8.5	4.8	4.7

* Includes mathematics and computer sciences.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 25. Postgraduation commitments of doctorate recipients, by type of plans and demographic group for selected years, 1980-2000

								U.S. Citizens and Permanent Residents				
		Total	Male	Female	U.S. Citizen	Perm Visa	Temp Visa	Asian[a]	Black	Hispanic	American Indian[b]	White
All Definite Commitments												
1980	N	21,920	15,690	6,230	18,637	815	2,449	735	766	323	57	16,868
1985	N	20,952	14,042	6,910	16,883	763	3,289	661	668	428	71	15,590
1990	N	23,413	14,898	8,514	17,764	916	4,670	751	667	534	60	16,474
1995	N	24,972	14,960	10,010	18,169	2,082	4,701	2,223	890	639	94	16,255
2000	N	26,711	15,276	11,435	19,414	1,136	6,136	1,449	1,117	871	118	16,729
Definite Commitments with Responses to Type of Plans												
1980	N	21,824	15,622	6,202	18,575	813	2,417	734	755	322	57	16,822
1985	N	20,868	13,985	6,883	16,827	757	3,267	657	659	425	70	15,549
1990	N	23,299	14,823	8,475	17,705	911	4,640	749	661	531	60	16,402
1995	N	24,816	14,877	9,937	18,059	2,068	4,669	2,207	877	631	93	16,172
2000	N	26,589	15,202	11,387	19,347	1,127	6,093	1,440	1,111	864	116	16,679
Employment												
1980	%	80.3	79.3	82.6	81.0	77.2	76.0	73.7	93.8	87.0	86.0	80.6
1985	%	77.7	76.2	80.9	78.6	79.1	72.8	73.8	90.4	83.5	81.4	78.2
1990	%	73.6	71.4	77.4	76.4	69.4	63.3	65.0	87.0	77.6	86.7	76.2
1995	%	70.3	67.4	74.5	74.2	52.3	62.9	50.8	82.7	72.9	74.2	74.3
2000	%	71.3	69.6	73.6	74.0	68.9	63.3	62.1	81.6	71.4	79.3	74.3
Study												
1980	%	19.7	20.7	17.2	19.0	22.8	24.0	26.3	6.2	13.0	14.0	19.4
1985	%	22.3	23.8	19.1	21.4	20.9	27.2	26.2	9.6	16.5	18.6	21.8
1990	%	26.4	28.6	22.6	23.6	30.6	36.7	35.0	13.0	22.4	13.3	23.8
1995	%	29.7	32.6	25.5	25.8	47.7	37.1	49.2	17.3	27.1	25.8	25.7
2000	%	28.7	30.4	26.4	26.0	31.1	36.7	37.9	18.4	28.6	20.7	25.7

[a] Includes Pacific Islander.
[b] Includes Alaskan Native.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 26. Postdoctoral location of non-U.S. citizen doctorate recipients with postgraduation commitments, by major field and visa status, 2000

Field	Permanent Visa					Temporary Visa				
	Resp. to location/ type of plans	U.S. Location		Foreign Location		Resp. to location/ type of plans	U.S. Location		Foreign Location	
		Employ (%)	Study (%)	Employ (%)	Study (%)		Employ (%)	Study (%)	Employ (%)	Study (%)
All Fields	1,123	62.6	29.6	6.3	1.5	6,067	39.1	30.8	24.2	5.9
Physical Sciences*	232	64.7	31.0	3.0	1.3	1,414	38.9	42.8	10.6	7.7
Physics & Astronomy	48	52.1	43.8	2.1	2.1	318	33.0	50.6	6.3	10.1
Chemistry	78	57.7	38.5	3.8	0.0	428	24.5	61.2	8.4	5.8
Earth, Atmos., & Marine Sci.	20	45.0	50.0	0.0	5.0	123	21.1	43.9	22.8	12.2
Mathematics	33	78.8	21.2	0.0	0.0	298	43.0	35.2	10.7	11.1
Computer Sciences	53	84.9	7.5	5.7	1.9	247	75.3	9.3	13.8	1.6
Engineering	222	79.7	16.2	2.7	1.4	1,502	58.1	20.1	18.8	3.2
Life Sciences	290	31.7	61.7	5.5	1.0	1,449	14.8	58.3	20.4	8.5
Biological Sciences	215	20.5	76.3	1.9	1.4	939	9.3	78.1	9.3	5.3
Health Sciences	43	76.7	11.6	11.6	0.0	219	35.2	18.3	41.6	5.0
Agricultural Sciences	32	46.9	31.3	21.9	0.0	291	17.5	30.9	40.2	11.3
Social Sciences	124	62.9	21.8	13.7	1.6	685	45.8	10.4	39.0	4.8
Psychology	37	51.4	35.1	10.8	2.7	99	39.4	32.3	18.2	10.1
Anthropology	8	37.5	37.5	25.0	0.0	31	29.0	9.7	45.2	16.1
Economics	30	70.0	10.0	20.0	0.0	345	51.3	4.1	42.3	2.3
Political Sci./Int'l Relations	10	60.0	20.0	20.0	0.0	57	36.8	5.3	54.4	3.5
Sociology	16	75.0	12.5	12.5	0.0	54	37.0	7.4	46.3	9.3
Other Social Sciences	23	73.9	17.4	4.3	4.3	99	48.5	15.2	33.3	3.0
Humanities	124	86.3	1.6	9.7	2.4	378	42.6	6.1	43.9	7.4
History	13	61.5	0.0	30.8	7.7	40	30.0	12.5	37.5	20.0
English Language & Lit	13	92.3	0.0	0.0	7.7	32	31.3	3.1	62.5	3.1
Foreign Language & Lit	35	94.3	5.7	0.0	0.0	78	70.5	7.7	17.9	3.8
Other Humanities	63	85.7	0.0	12.7	1.6	228	36.8	4.8	51.3	7.0
Education	87	77.6	11.9	7.5	3.0	283	23.0	4.9	59.7	12.4
Teacher Education	5	100.0	0.0	0.0	0.0	17	11.8	0.0	70.6	17.6
Teaching Fields	10	80.0	0.0	20.0	0.0	71	23.9	4.2	52.1	19.7
Other Education	52	75.0	15.4	5.8	3.8	195	23.6	5.6	61.5	9.2
Professional/Other	64	73.4	12.5	12.5	1.6	356	54.5	3.1	39.6	2.8
Business & Management	37	70.3	10.8	18.9	0.0	230	61.7	1.7	34.8	1.7
Communications	7	100.0	0.0	0.0	0.0	43	48.8	4.7	44.2	2.3
Other Professional Fields	20	70.0	20.0	5.0	5.0	83	37.3	6.0	50.6	6.0

NOTE: Only non-U.S. citizen doctorate recipients with definite commitments are included. Percentages are based on the number of doctorate recipients who reported a definite commitment and a location. See technical notes in Appendix C for rates of nonresponse to the applicable survey questions and for further explanation of postgraduation plans.

* Includes mathematics and computer sciences.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 27. Postdoctoral location of non-U.S. citizen doctorate recipients with postgraduation commitments, by visa status for selected years, 1980-2000

		All Non-U.S. Citizens	Permanent Visa	Temporary Visa
All Definite Commitments				
1980	N	3,264	815	2,449
1985	N	4,052	763	3,289
1990	N	5,586	916	4,670
1995	N	6,783	2,082	4,701
2000	N	7,272	1,136	6,136
Definite Commitments with Responses to Location				
1980	N	3,059	762	2,297
1985	N	3,712	706	3,006
1990	N	5,133	823	4,310
1995	N	6,731	2,065	4,666
2000	N	7,235	1,130	6,105
U.S. Location				
1980	%	52.9	93.3	39.4
1985	%	54.6	89.7	46.4
1990	%	59.0	86.1	53.9
1995	%	65.1	91.6	53.4
2000	%	73.3	92.0	69.9
Foreign Location				
1980	%	47.1	6.7	60.6
1985	%	45.4	10.3	53.6
1990	%	41.0	13.9	46.1
1995	%	34.9	8.4	46.6
2000	%	26.7	8.0	30.1

NOTE: Only non-U.S. citizen doctorate recipients with definite commitments are included. "All Definite Commitments" includes recipients who reported definite commitments, but not location (U.S. or foreign). Percentages are based on the number of doctorate recipients who reported a definite commitment and a location (U.S. versus foreign).

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 28. Employment sector of doctorate recipients with postgraduation commitments in the United States, by demographic group for selected years, 1980-2000

								U.S. Citizens & Permanent Residents				
		Total[a]	Male	Female	U.S. Citizen	Perm Visa	Temp Visa	Asian[b]	Black	Hispanic	American Indian[c]	White
All Employment Commitments												
1980	N	14,558	10,053	4,505	14,010	548	470	481	628	257	41	12,674
1985	N	12,652	7,931	4,721	12,162	490	759	412	512	314	51	11,223
1990	N	13,396	7,603	5,793	12,899	497	1,205	416	536	382	50	11,891
1995	N	14,036	7,429	6,606	13,074	962	1,231	1,032	714	441	67	11,691
2000	N	14,752	7,505	7,247	14,049	703	2,371	854	897	594	87	12,139
Employment Commitments with Responses to Sector												
1980	N	14,540	10,042	4,498	13,994	548	470	481	626	256	41	12,659
1985	N	12,643	7,928	4,715	12,156	487	752	411	510	314	51	11,217
1990	N	13,283	7,559	5,724	12,789	494	1,200	415	530	378	49	11,791
1995	N	13,795	7,313	6,481	12,861	934	1,214	1,003	690	432	66	11,515
2000	N	14,550	7,407	7,143	13,858	692	2,324	831	884	581	85	11,992
Academe												
1980	%	52.8	49.0	61.3	53.3	41.4	48.3	30.4	60.1	59.0	51.2	53.3
1985	%	50.0	46.6	55.7	49.8	54.4	61.4	38.2	52.4	60.2	54.9	50.0
1990	%	52.0	47.9	57.3	51.8	57.1	55.9	40.2	56.8	57.9	65.3	51.9
1995	%	54.0	48.7	59.9	54.8	41.9	46.7	38.1	60.4	60.4	63.8	54.7
2000	%	51.8	48.4	55.4	52.1	45.1	34.3	36.0	52.9	57.5	63.5	52.4
Industry/Self-Employed												
1980	%	17.0	20.5	9.4	15.8	47.8	41.5	53.2	4.3	9.8	9.8	16.3
1985	%	19.4	24.3	11.1	18.6	39.2	31.5	47.9	7.5	11.8	15.7	19.1
1990	%	20.4	25.8	13.2	19.9	31.6	39.0	43.9	5.3	12.7	14.3	20.4
1995	%	19.9	26.4	12.5	17.9	47.9	46.4	50.1	7.2	15.5	15.2	18.2
2000	%	21.1	27.5	14.5	19.9	45.7	59.6	49.1	12.4	17.6	8.2	20.1
Government												
1980	%	12.6	14.2	9.3	13.0	3.8	4.5	8.1	14.2	12.9	17.1	12.7
1985	%	11.9	12.1	11.5	12.3	2.3	2.0	7.3	14.5	10.5	7.8	12.0
1990	%	9.6	10.9	7.9	9.8	3.8	1.8	8.7	10.2	10.8	4.1	9.6
1995	%	8.8	9.9	7.6	9.2	3.1	1.8	5.8	7.2	9.3	6.1	9.2
2000	%	8.4	9.8	6.9	8.6	3.8	1.7	6.5	9.0	9.1	11.8	8.3
Other												
1980	%	17.5	16.4	20.0	17.9	7.0	5.7	8.3	21.4	18.4	22.0	17.7
1985	%	18.7	17.0	21.7	19.3	4.1	5.1	6.6	25.7	17.5	21.6	19.0
1990	%	18.1	15.4	21.6	18.5	7.5	3.3	7.2	27.7	18.5	16.3	18.1
1995	%	17.3	14.9	20.0	18.0	7.2	5.1	6.2	25.1	14.8	15.2	18.0
2000	%	18.7	14.3	23.3	19.4	5.5	4.4	8.4	25.6	15.6	16.5	19.2

[a] Includes U.S. citizens and non-U.S. citizens with permanent visas for whom sex is reported.
[b] Includes Pacific Islander.
[c] Includes Alaskan Native.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDICES

APPENDIX A: The Eight Basic Tables, 2000

Appendix A includes the following eight tables:

- A-1 Number of Doctorate Recipients, by Sex and Subfield, 2000
- A-2 Number of Doctorate Recipients, by Citizenship, Race/Ethnicity, and Subfield, 2000
- A-3 Statistical Profile of Doctorate Recipients, by Major Field, 2000
- A-4 Statistical Profile of Doctorate Recipients, by Race/Ethnicity and Citizenship, 2000
- A-5 Sources of Graduate School Support for Doctorate Recipients, by Broad Field and Sex, 2000
- A-6 State of Doctoral Institution of Doctorate Recipients, by Broad Field and Sex, 2000
- A-7 Institutions Granting Doctorates, by Major Field, 2000
- A-8 Top 50 Doctorate Granting Institutions, 2000

TABLE A-1 and TABLE A-2: Tables A-1 and A-2 display data for the most recent year by subfield of doctorate. Field groupings may differ from those in reports published by Federal sponsors of the Survey of Earned Doctorates (SED). The "general" field categories—e.g., "chemistry, general"—include individuals who either received the doctorate in the general subject area or did not indicate a particular specialty field. The "other" field categories—e.g., "chemistry, other"—include individuals whose specified doctoral discipline was not among the specialty fields listed.

Table A-1 presents data by doctoral specialty and sex. Table A-2 displays doctoral specialty by citizenship and race/ethnicity. For a detailed description of the racial/ethnic variable, see the explanatory note for Table A-4.

TABLE A-3: Table A-3 is composed of three 2-page tables. The first table (A-3a) includes data on *all* research doctorate recipients from the most recent year; the other two tables (A-3b and A-3c) present the same data by sex. Field groupings may differ from those in reports published by Federal sponsors of the SED. Terms requiring definition are as follows:

— *Percentage with Master's*: The percentage of doctorate recipients in a field who received a master's degree in any field before earning the doctorate.

— *Median Age at Doctorate*: One-half received the doctorate at or before this age. A recipient's age is obtained by subtracting the month/year of birth from the month/year of doctorate (see note on next page).

— *Median Time Lapse*: "Total Time" refers to the total calendar time elapsed between the month/year of baccalaureate and the month/year of doctorate. "Registered Time" refers to the actual time in attendance at colleges and universities between receipt of the baccalaureate and the doctorate.

— *Postgraduation Plans:* Each year's doctorate recipients provide information on post-graduation employment or study plans in response to items B1 through B9 on the survey form. Since the questionnaire is filled out around the time the doctorate is awarded, a recipient's plans are subject to change. However, comparisons with the longitudinal Survey of Doctorate Recipients (SDR) have shown SED data to be a reasonable indicator of actual employment status in the year following the doctorate, although results vary by sector. (The SDR is a follow-up employment survey of a sample of doctorate recipients in science, engineering, and, until 1995, humanities fields.)

In Table A-3 the postgraduation plans of doctorate recipients are grouped as follows: "Postdoctoral Study Plans" (fellowship, research internship, traineeship, other), "Planned Employment after Doctorate" (educational institution, industry, etc.), and "Postdoctoral Plans Unknown." These categories include recipients who were still negotiating or seeking positions at the time of survey completion, as well as those whose plans were definite. The sum of these lines equals 100 percent for each column, with allowance for rounding: for example, 33.5 percent of all agricultural sciences doctorate recipients had postdoctoral study plans, 59.0 percent planned to be employed, and 7.6 percent did not report their post-graduation plans, totaling 100.1 percent. The additional .1 percent is due to the fact that the exact figure for each type of postdoctoral plans is not exact, but has been rounded (e.g. the actual figure for employment plans is 58.98618 which rounds to 59.0). The postdoctoral study row is further subdivided by type of study or appointment (fellowships, research associateships, traineeships, and other study). The percentages in these subdivisions sum to the percent of respondents in the given column who reported plans for postdoctoral study. The employment row is similarly subdivided by type of employer. The percentages for these rows add to percentage of respondents in the given column who planned employment. The category for educational institutions includes elementary and secondary schools as well as colleges and universities, and the category for government includes military service.

The four lines of data beginning with "Definite Postdoctoral Study" distinguish between individuals who had definite postgraduation plans at the time of survey completion (item B1: "Am returning to, or continuing in, predoctoral employment" or "Have signed contract or made definite commitment") and those who were still seeking employment or postdoctoral study (item B1: "Am negotiating with one or more specific organizations," "Am seeking position but have no specific prospects," or "Other"). These four lines, when added to the prior line, "Postdoctoral Plans Unknown," total 100 percent with allowance for rounding. The two lines "Definite Postdoctoral Study" and "Seeking Postdoctoral Study" add to give the percentage for "Postdoctoral Study Plans"; the two lines "Definite Employment" and "Seeking Employment" add to give the percentage for "Planned Employment After Doctorate."

Percentages showing the distribution of doctorate recipients by postdoctoral work activity and region of employment are based only on the number of recipients who had *definite employment commitments* at the time they completed the questionnaire. These percentages exclude recipients who planned postdoctoral study (as described above) and recipients who were still *seeking* employment at the time they completed the questionnaire. (Note that the rows on specific postdoctoral study and employment plans discussed earlier include individuals whose plans were *not definite*.)

The U.S. regions of employment shown in Table A-3 include the following states and territories:

New England:	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont
Middle Atlantic:	New Jersey, New York, Pennsylvania
East North Central:	Illinois, Indiana, Michigan, Ohio, Wisconsin
West North Central:	Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota
South Atlantic:	Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, West Virginia
East South Central:	Alabama, Kentucky, Mississippi, Tennessee
West South Central:	Arkansas, Louisiana, Oklahoma, Texas
Mountain:	Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming
Pacific & Insular:	Alaska, California, Hawaii, Oregon, Washington, American Samoa, Guam, Puerto Rico, Trust Territory, Virgin Islands

TABLE A-4: Table A-4 contains data by race/ethnicity and citizenship for selected variables included in Tables A-3 and A-5. Field groupings may differ from those in reports published by Federal sponsors of the SED.

The racial/ethnic question has undergone several revisions over the years. In 1977 it was modified to correspond to a standard question format recommended by the Federal Interagency Committee on Education and adopted by the Office of Management and Budget (OMB) for use in Federally sponsored surveys; an explanation of the effect of these changes is detailed on page 13 of *Summary Report 1977*. (Note: Changes in the OMB guidelines prompted the reclassification of persons having origins in the Indian subcontinent from the white category to the Asian category.) In 1980 the item was further revised in two ways: (1) the Hispanic category was subdivided into Puerto Rican, Mexican American, and other Hispanic to provide more detail for users of the racial/ethnic data; and (2) respondents were asked to check only one racial

category. (Before 1980, doctorate recipients could check more than one category to indicate their race.)

The item was modified again in 1982 to separate the questions on race and ethnicity. Since then respondents have been asked to first indicate whether or not they are Hispanic, and then check one of the four racial group categories (American Indian, Asian, black, or white). In Table A-4, doctorate recipients who reported Hispanic heritage, regardless of racial designation, are included in one of three Hispanic groups: Puerto Rican, Mexican American, or other Hispanic. The remaining survey respondents are then counted in the respective racial groups. (Note: Doctorate recipients who checked the category "American Indian or Alaskan Native" are identified as American Indian in this report.)

In the section of "Doctoral Program Support" a recipient counts in more than one category if support was received from multiple sources. Because a student counts more than once for sources of support, the vertical percentages sum to more than 100 percent. See the explanatory note on Appendix Table A-5 for further detail. (Data on the *primary* source of support for doctorate recipients are presented in the body of the report.)

The other sections in Table A-4 correspond to many of those in Appendix Table A-3. The reader is referred to the explanatory note on Table A-3 for additional information.

TABLE A-5: Table A-5 displays data reported in item A11 on financial resources used in support of the respondent's doctoral program, by broad field and sex of recipient. Field groupings may differ from those in reports published by Federal sponsors of the SED.

A recipient counts in more than one category in Table A-5 if more than one financial resource was reported. Because a student counts once for each of his/her financial resources, the vertical percentages sum to more than 100 percent. (Data on the *primary* financial resources for doctorate recipients are presented in the body of the report.) Please consult Appendix C: Technical Notes for additional information on changes in the coding of Sources of Support/Financial Resources.

TABLE A-6: Table A-6 shows, by broad field and sex, the number of persons receiving a research doctorate in the most recent year from institutions in each of the 50 states, the District of Columbia, and Puerto Rico. Field groupings may differ from those in reports published by Federal sponsors of the SED. See Appendix E of the Summary Report for a description of field groupings as reported in this table; see the questionnaire's Specialties List in Appendix D of the Summary Report for the names and codes of the subfields included.

TABLE A-7: Table A-7 displays data by doctorate-granting institution and major field. It includes all institutions in the United States (the 50 states, the District of Columbia, and Puerto Rico) that awarded research doctoral degrees in the most recent year. Field groupings may differ

from those in reports published by Federal sponsors of the SED and from departmental designations at institutions.

TABLE A-8: Table A-8 presents the 50 doctorate granting institutions which conferred the greatest number of doctorates in AY 2000. The number of doctorate degrees granted is also shown for each ranked institution.

APPENDIX TABLE A-1. Number of doctorate recipients, by sex and subfield, 2000

Subfield of Doctorate	Number of Doctorates		
	Total	Men	Women
TOTAL ALL FIELDS*	41,368	23,173	18,121
PHYSICAL SCIENCES	6,077	4,596	1,466
MATHEMATICS	1,048	789	258
Applied Mathematics	238	179	59
Algebra	82	61	21
Analysis & Functional Analysis	81	66	15
Geometry	59	51	8
Logic	19	17	2
Number Theory	40	35	5
Mathematical Statistics	194	123	71
Topology	50	40	10
Computing Theory & Practice	17	15	2
Operations Research	19	16	3
Mathematics, General	150	116	33
Mathematics, Other	99	70	29
COMPUTER SCIENCE	861	717	142
Computer Science	722	618	104
Information Sciences & Systems	139	99	38
PHYSICS & ASTRONOMY	1,392	1,185	204
Astronomy	80	55	25
Astrophysics	107	91	16
Acoustics	10	9	1
Chemical & Atomic/Molecular	110	89	21
Elementary Particles	147	132	15
Fluids	10	10	0
Nuclear	74	65	9
Optics	117	99	18
Plasma & High-Temperature	38	38	0
Polymer	21	15	6
Solid State & Low-Temperature	279	237	42
Physics, General	225	193	31
Physics, Other	174	152	22
CHEMISTRY	1,990	1,362	624
Analytical	326	205	121
Inorganic	221	157	64
Nuclear	9	6	3
Organic	524	384	140
Medicinal/Pharmaceutical	107	55	51
Physical	271	195	76
Polymer	106	75	31
Theoretical	52	40	12
Chemistry, General	264	181	81
Chemistry, Other	110	64	45
EARTH, ATMOS., & MARINE SCI.	786	543	238
Atmospheric Physics & Chemistry	39	27	12
Atmospheric Dynamics	17	14	3
Meteorology	34	27	6
Atmos. Sci./Meteorology, General	36	28	7
Atmos. Sci./Meteorology, Other	17	12	5
Geology	124	94	29
Geochemistry	48	35	13
Geophysics & Seismology	69	53	16
Paleontology	31	17	14
Mineralogy, Petrology	5	4	1
Stratigraphy, Sedimentation	13	9	4
Geomorphology & Glacial Geology	14	10	4
Geological & Related Sci., General	20	15	5
Geological & Related Sci., Other	18	11	7
Environmental Science	94	50	42
Hydrology & Water Resources	43	27	16
Oceanography	100	71	29
Marine Sciences	35	18	17
Misc. Physical Sciences, Other	29	21	8
ENGINEERING	5,330	4,463	839
Aerospace, Aeronautic., Astronautic.	215	192	21
Agricultural	60	52	7
Bioengineering & Biomedical	252	179	71
Ceramic Sciences	22	14	8
Chemical	520	487	131
Civil	482	404	78
Communications	42	35	7
Computer	172	139	32
Electrical, Electronics	1,330	1,182	157
Engineering Mechanics	57	50	7
Engineering Physics	26	25	1
Engineering Science	34	28	6
Environmental Health Engineering	76	64	10
Industrial/Manufacturing	176	140	35
Materials Science	404	330	73
Mechanical	807	717	89
Metallurgical	25	23	2
Mining & Mineral	10	10	0
Nuclear	98	89	9
Ocean	18	15	3

Subfield of Doctorate	Number of Doctorates		
	Total	Men	Women
Operations Research	51	40	11
Petroleum	44	37	6
Polymer/Plastics	62	47	15
Systems	34	28	6
Engineering, General	43	31	10
Engineering, Other	170	126	44
LIFE SCIENCES	8,529	4,524	3,997
BIOLOGICAL SCIENCES	5,855	3,228	2,621
Biochemistry	777	451	325
Biomedical Sciences	155	86	68
Biophysics	164	115	49
Biotechnology Research	14	8	6
Bacteriology	15	9	6
Plant Genetics	35	18	17
Plant Pathology	25	17	8
Plant Physiology	39	24	15
Botany, Other	92	39	53
Anatomy	40	23	17
Biometrics and Biostatistics	92	51	41
Cell Biology	337	181	156
Ecology	297	181	116
Developmental Biology/Embryology	111	51	60
Endocrinology	20	12	8
Entomology	137	100	37
Biological Immunology	238	123	115
Molecular Biology	708	367	318
Microbiology	383	193	190
Neuroscience	495	300	195
Nutritional Sciences	150	24	126
Parasitology	19	11	8
Toxicology	123	65	58
Human & Animal Genetics	225	112	113
Human & Animal Pathology	105	61	44
Human & Animal Pharmacology	267	143	123
Human & Animal Physiology	244	143	101
Zoology, Other	133	78	55
Biological Sciences, General	200	117	83
Biological Sciences, Other	218	106	111
HEALTH SCIENCES	1,589	524	1,063
Speech-Lang. Pathology & Audiology	106	27	79
Environmental Health	52	24	28
Health Systems/Services Admin.	58	25	33
Public Health	207	75	132
Epidemiology	190	59	131
Exercise Physiology/Sci., Kinesiology	130	82	48
Nursing	413	16	397
Pharmacy	164	91	73
Rehabilitation/Therapeutic Services	40	17	23
Veterinary Medicine	50	29	21
Health Sciences, General	50	20	30
Health Sciences, Other	129	59	68
AGRICULTURAL SCIENCES	1,085	772	313
Agricultural Economics	137	99	38
Agricultural Business & Management	5	4	1
Animal Breeding & Genetics	22	18	4
Animal Nutrition	46	38	8
Dairy Science	9	9	0
Poultry Science	9	6	3
Fisheries Science & Management	43	32	11
Animal Sciences, Other	73	47	26
Agronomy & Crop Science	70	56	14
Plant Breeding & Genetics	68	45	23
Plant Pathology	63	51	12
Plant Sciences, Other	29	19	10
Food Engineering	10	8	2
Food Sciences, Other	142	76	66
Soil Chemistry/Microbiology	26	18	8
Soil Sciences, Other	64	49	15
Horticulture Science	55	39	16
Forest Biology	22	14	8
Forest Engineering	3	3	0
Forest Management	13	11	2
Wood Sci. & Pulp/Paper Tech.	11	10	1
Conservation/Renewable Nat. Res.	19	14	5
Forestry & Related Sci., Other	54	37	17
Wildlife/Range Management	56	45	11
Agricultural Sciences, General	10	8	2
Agricultural Sciences, Other	28	18	10
SOCIAL SCIENCES & PSYCHOLOGY	7,115	3,227	3,879
SOCIAL SCIENCES	3,492	2,022	1,465
Anthropology	446	194	252
Area Studies	14	10	4
Criminology	66	32	34
Demography/Population Studies	19	10	9
Economics	933	679	252
Econometrics	15	12	3
Geography	197	127	70

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APPENDIX TABLE A-1. Number of doctorate recipients, by gender and subfield, 2000 (continued)

Subfield of Doctorate	Number of Doctorates		
	Total	Men	Women
International Relations/Affairs	77	50	28
Political Science and Government	670	433	236
Public Policy Analysis	137	75	62
Sociology	615	248	368
Statistics	60	38	22
Urban Affairs/Studies	78	50	28
Social Sciences, General	39	19	20
Social Sciences, Other	126	45	81
PSYCHOLOGY	3,823	1,205	2,414
Clinical	1,357	359	996
Cognitive & Psycholinguistics	141	75	66
Comparative	7	5	2
Counseling	475	163	312
Developmental and Child	203	40	163
Human/Indv. & Family Development	148	45	103
Experimental	133	74	59
Educational	97	34	63
Family & Marriage Counseling	54	25	29
Industrial & Organizational	188	75	112
Personality	23	9	14
Physiological/Psychobiology	89	33	56
Psychometrics	13	8	5
Quantitative	8	6	2
School	98	21	77
Social	209	74	135
Psychology, General	239	102	136
Psychology, Other	141	57	84
HUMANITIES	5,634	2,799	2,830
GENERAL HUMANITIES	3,751	2,027	1,719
History, American	442	282	160
History, Asian	51	35	16
History, European	243	155	88
History/Philosophy of Sci. & Tech.	42	25	17
History, General	103	65	38
History, Other	179	112	67
Classics	63	35	28
Comparative Literature	188	74	114
Linguistics	229	95	134
Speech & Rhetorical Studies	143	53	90
Letters, General	55	25	30
Letters, Other	92	42	50
American Studies	113	50	63
Archaeology	36	12	24
Art History/Criticism/Conservation	228	69	159
Music	749	404	340
Philosophy	363	260	103
Religion	350	217	133
Drama/Theater Arts	82	37	45
LANGUAGE & LITERATURE	1,711	695	1,016
American Literature	460	198	262
English Literature	544	223	321
English Language	66	27	39
French	143	41	102
German	83	37	46
Italian	16	5	11
Spanish	218	79	139
Russian	29	8	21
Slavic	14	5	9
Chinese	21	7	14
Japanese	18	10	8
Hebrew	11	8	3
Arabic	15	10	5
Other Language & Literature	73	37	36
OTHER HUMANITIES	172	77	95
Humanities, General	40	23	17
Humanities, Other	132	54	78
EDUCATION	6,420	2,250	4,167
RESEARCH & ADMINISTRATION	4,936	1,720	3,214
Curriculum & Instruction	968	292	676

Subfield of Doctorate	Number of Doctorates		
	Total	Men	Women
Educational Admin. & Supervision	810	314	496
Educational Leadership	1,199	464	734
Educ./Instruct. Media Design	138	64	74
Educ. Stat./Research Methods	55	23	32
Educ. Assess., Test., & Meas.	45	23	22
Educational Psychology	278	73	205
School Psychology	137	36	101
Social/Phil. Found. Of Educ.	135	56	79
Special Education	259	49	210
Counseling Educ./Couns. & Guidance	214	76	137
Higher Educ./Evaluation & Research	438	179	259
Pre-elementary/Early Childhood	34	4	30
Elementary Education	53	8	45
Secondary Education	23	8	15
Adult & Continuing Education	150	51	99
TEACHING FIELDS	828	329	499
Agricultural Education	22	17	5
Art Education	31	7	24
Business Education	37	19	18
English Education	44	10	34
Foreign Languages Education	43	13	30
Health Education	71	21	50
Home Economics Education	14	4	10
Technical/Industrial Arts Education	21	10	11
Mathematics Education	91	41	50
Music Education	78	41	37
Nursing Education	11	1	10
Physical Education and Coaching	83	44	39
Reading Education	89	15	74
Science Education	60	25	35
Social Science Education	40	17	23
Technical Education	20	13	7
Trade & Industrial Education	12	8	4
Teacher Ed./Spec. Acad. & Voc., Other	61	23	38
OTHER EDUCATION	656	201	454
Education, General	255	78	176
Education, Other	401	123	278
PROFESSIONAL/OTHER FIELDS[b]	2,263	1,314	943
BUSINESS AND MANAGEMENT	1,071	726	340
Accounting	111	58	53
Banking/Financial Support Services	72	60	12
Business Admin. & Management	325	232	92
Business/Managerial Economics	52	35	18
International Business	34	22	11
Mgmt. Info. Sys./Bus. Data Proc.	85	70	15
Marketing Management & Research	140	96	44
Operations Research	61	50	11
Organizational Behavior	99	48	51
Bus. Mgmt./Admin. Serv., General	36	23	11
Bus. Mgmt./Admin. Serv., Other	56	32	24
COMMUNICATIONS	389	181	208
Communications Research	53	25	28
Mass Communications	153	82	71
Communications Theory	39	14	25
Communications, General	78	34	44
Communications, Other	66	26	40
OTHER PROFESSIONAL FIELDS	797	404	393
Architectural/Environmental Design	60	38	22
Home Economics	23	0	23
Law	41	25	16
Library Science	45	14	31
Parks/Recreation/Leisure/Fitness	45	31	14
Public Administration	102	61	41
Social Work	259	71	188
Theology/Religious Education	170	133	37
Professional Fields, General	3	3	0
Professional Fields, Other	49	28	21
OTHER FIELDS	1	1	0

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.
[a] Grand totals include 74 doctorate recipients whose gender was unknown and 5 doctorate recipients whose doctoral field was unknown.
[b] Includes 5 persons for whom field was unknown.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

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APPENDIX TABLE A-2. Number of doctorate recipients, by citizenship, race/ethnicity, and subfield, 2000

Subfield of Doctorate	Total Doctorates*	Non-U.S. Citizens Temp. Visas	U.S. Citizens and Non-U.S. with Permanent Visas								
			Total	American Indian*	Asian*	Black	White	Puerto Rican	Mexican American	Other Hispanic	Unknown Race
TOTAL ALL FIELDS	41,368	9,648	29,837	169	2,315	1,775	23,651	307	411	561	648
PHYSICAL SCIENCES	6,077	2,161	3,619	17	379	101	2,914	30	40	52	66
MATHEMATICS	1,048	442	568	2	70	14	450	2	8	4	8
Applied Mathematics	238	118	116	1	24	4	81	0	5	1	0
Algebra	82	27	55	0	6	1	46	0	1	1	0
Analysis & Functional Analysis	81	39	41	0	2	1	37	1	0	0	0
Geometry	59	32	27	0	5	0	20	0	0	0	2
Logic	19	6	12	0	0	1	11	0	0	0	0
Number Theory	40	17	23	0	2	0	20	0	0	1	0
Mathematical Statistics	194	70	122	1	19	2	96	1	1	1	1
Topology	50	19	31	0	1	0	30	0	0	0	0
Computing Theory & Practice	17	8	8	0	2	0	6	0	0	0	0
Operations Research	19	7	12	0	3	2	7	0	0	0	0
Mathematics, General	150	62	60	0	4	1	50	0	0	0	5
Mathematics, Other	99	37	61	0	2	2	56	0	1	0	0
COMPUTER SCIENCE	861	361	458	1	77	18	337	4	4	5	12
Computer Science	722	331	359	1	67	10	261	3	4	4	9
Information Sciences & Systems	139	30	99	0	10	8	76	1	0	1	3
PHYSICS & ASTRONOMY	1,392	500	828	2	82	17	684	1	8	19	17
Astronomy	90	17	63	1	7	1	51	0	1	1	1
Astrophysics	107	26	77	0	6	0	65	0	0	1	5
Acoustics	10	3	7	0	0	0	7	0	0	0	0
Chemical & Atomic/Molecular	110	38	69	0	6	1	60	0	1	1	0
Elementary Particles	147	57	86	1	8	3	69	0	1	3	1
Fluids	10	4	5	0	1	0	4	0	0	0	0
Nuclear	74	32	41	0	2	0	36	0	1	2	0
Optics	117	46	63	0	5	2	53	0	1	1	1
Plasma & High-Temperature	38	10	27	0	4	1	20	0	0	1	1
Polymer	21	13	7	0	1	0	6	0	0	0	0
Solid State & Low-Temperature	279	127	152	0	18	5	121	1	0	3	4
Physics, General	225	68	118	0	14	2	96	0	1	3	2
Physics, Other	174	59	113	0	10	2	96	0	0	3	2
CHEMISTRY	1,990	648	1,236	7	120	44	984	18	17	15	31
Analytical	328	98	227	1	27	10	172	5	5	4	3
Inorganic	221	54	163	0	7	3	150	1	0	0	2
Nuclear	9	5	4	0	0	0	4	0	0	0	0
Organic	524	187	328	3	34	12	267	2	4	3	3
Medicinal/Pharmaceutical	107	40	55	0	10	1	43	0	1	0	0
Physical	271	96	170	0	16	5	139	0	4	1	5
Polymer	106	48	57	0	7	3	42	2	0	1	2
Theoretical	52	21	31	0	2	2	24	1	0	1	1
Chemistry, General	264	71	126	2	10	5	84	7	3	4	11
Chemistry, Other	110	30	75	1	7	3	59	0	0	1	4
EARTH, ATMOS., & MARINE SCI.	766	210	529	5	30	8	449	5	5	9	18
Atmospheric Physics & Chemistry	39	10	27	0	1	0	24	0	0	0	2
Atmospheric Dynamics	17	10	7	0	0	0	7	0	0	0	0
Meteorology	34	10	23	0	2	1	17	2	0	0	1
Atmos. Sci./Meteorology, General	36	11	21	0	2	0	16	0	0	0	1
Atmos. Sci./Meteorology, Other	17	6	8	0	1	0	7	0	0	0	0
Geology	124	27	90	3	3	0	78	1	3	1	3
Geochemistry	48	10	38	0	2	1	34	0	0	0	1
Geophysics & Seismology	69	26	39	0	3	0	36	0	0	0	0
Paleontology	31	2	28	0	1	0	24	1	0	0	2
Mineralogy, Petrology	5	2	3	0	0	0	2	0	0	1	0
Stratigraphy, Sedimentation	13	6	7	1	0	0	4	0	0	0	2
Geomorphology & Glacial Geology	14	0	14	0	0	0	13	0	0	0	1
Geological & Related Sci., General	20	6	9	0	0	0	9	0	0	0	0
Geological & Related Sci., Other	18	5	13	0	0	0	12	0	0	1	0
Environmental Science	94	28	57	1	6	4	38	0	1	2	5
Hydrology & Water Resources	43	14	26	0	3	0	25	0	0	0	0
Oceanography	100	25	66	0	5	0	57	0	1	3	0
Marine Sciences	35	4	31	0	0	1	29	1	0	0	0
Misc. Physical Sciences, Other	29	8	20	0	1	1	17	0	0	1	0
ENGINEERING	5,330	2,444	2,556	8	447	83	1,878	20	25	35	60
Aerospace, Aeronautic., Astronautic.	215	75	127	0	12	4	107	0	0	3	1
Agricultural	60	39	18	0	0	0	16	0	1	0	1
Bioengineering & Biomedical	252	63	163	1	23	6	127	1	2	1	2
Ceramic Sciences	22	10	12	0	2	0	9	1	0	0	0
Chemical	620	253	339	1	54	9	257	4	4	7	3
Civil	482	254	215	1	40	5	157	2	3	3	4
Communications	42	27	14	0	7	0	7	0	0	0	0
Computer	172	99	66	0	21	1	41	0	0	1	2
Electrical & Electronics	1,330	651	563	0	113	20	394	6	4	11	15
Engineering Mechanics	57	31	23	0	1	1	20	1	0	0	0
Engineering Physics	26	8	17	0	3	0	14	0	0	0	0
Engineering Science	34	18	15	0	3	1	9	0	0	0	2
Environmental Health Engineering	76	26	45	0	6	1	36	0	0	0	2
Industrial/Manufacturing	176	93	77	0	11	4	59	0	0	0	3
Materials Science	404	161	219	0	32	6	172	2	3	1	3

APPENDIX TABLE A-2. Number of doctorate recipients, by citizenship, race/ethnicity, and subfield, 2000 (continued)

Subfield of Doctorate	Total Doctorates[a]	Non-U.S. Citizens Temp. Visas	U.S. Citizens and Non-U.S. with Permanent Visas								
			Total	American Indian[b]	Asian[c]	Black	White	Puerto Rican	Mexican American	Other Hispanic	Unknown Race
Mechanical	807	400	372	3	72	17	256	1	8	4	13
Metallurgical	25	10	12	0	1	0	9	0	0	1	1
Mining & Mineral	10	8	2	0	0	0	2	0	0	0	0
Nuclear	98	34	57	1	5	3	43	0	2	1	2
Ocean	16	11	5	0	0	0	5	0	0	0	0
Operations Research	51	16	32	0	10	1	16	1	0	1	3
Petroleum	44	25	11	0	4	0	6	0	0	1	0
Polymer/Plastics	62	30	30	0	13	0	15	1	0	0	1
Systems	34	16	14	1	2	0	11	0	0	0	0
Engineering, General	43	17	19	0	2	1	16	0	0	0	0
Engineering, Other	170	67	89	0	10	3	74	0	0	0	2
LIFE SCIENCES	8,529	2,189	6,011	26	686	222	4,716	49	64	125	123
BIOLOGICAL SCIENCES	5,855	1,390	4,260	17	550	123	3,306	33	46	94	91
Biochemistry	777	229	529	2	96	12	386	1	8	9	17
Biomedical Sciences	155	44	98	1	18	1	74	0	1	2	1
Biophysics	164	48	113	0	13	2	90	0	1	3	4
Biotechnology Research	14	6	8	0	2	1	5	0	0	0	0
Bacteriology	15	4	11	1	0	0	10	0	0	0	0
Plant Genetics	35	11	24	0	4	0	19	0	0	1	0
Plant Pathology	25	14	11	0	1	0	9	0	0	0	1
Plant Physiology	39	14	25	0	1	0	22	0	2	0	0
Botany, Other	92	20	70	1	2	1	62	0	1	1	2
Anatomy	40	7	32	0	5	2	23	1	0	1	0
Biometrics and Biostatistics	92	23	61	0	10	6	41	0	0	2	2
Cell Biology	337	73	252	1	35	4	199	2	2	5	4
Ecology	297	34	255	1	8	3	228	1	2	5	9
Developmental Biology/Embryology	111	28	85	0	9	2	70	1	3	0	0
Endocrinology	20	7	11	0	2	0	6	0	0	1	0
Entomology	137	50	84	1	4	1	74	1	0	2	1
Biological Immunology	236	52	185	0	29	4	140	0	1	6	3
Molecular Biology	705	201	485	3	94	11	348	4	5	9	11
Microbiology	383	91	278	1	36	16	207	6	1	4	6
Neuroscience	495	103	368	2	58	12	276	1	3	10	7
Nutritional Sciences	150	36	109	0	15	11	74	2	3	2	2
Parasitology	19	6	13	0	1	2	9	0	0	1	0
Toxicology	123	24	97	0	5	5	78	1	1	2	5
Human & Animal Genetics	225	41	170	0	21	2	138	4	2	1	2
Human & Animal Pathology	106	28	75	1	8	1	62	0	1	1	1
Human & Animal Pharmacology	267	57	198	0	26	7	153	1	1	7	3
Human & Animal Physiology	244	43	196	0	21	6	146	1	3	10	6
Zoology, Other	133	18	115	1	6	1	100	0	2	4	1
Biological Sciences, General	200	39	142	0	10	6	117	3	2	2	2
Biological Sciences, Other	218	41	161	1	12	3	139	1	3	1	1
HEALTH SCIENCES	1,589	306	1,188	4	99	75	954	9	11	14	22
Speech-Lang. Pathology & Audiology	106	17	89	0	2	3	78	1	0	2	3
Environmental Health	52	13	35	1	6	3	23	1	0	0	1
Health Systems/Services Admin.	58	13	43	0	1	6	34	1	1	0	0
Public Health	207	30	169	1	20	15	117	3	5	6	2
Epidemiology	190	28	153	0	16	12	121	1	1	1	1
Exercise Physiology/Sci., Kinesiology	130	18	109	1	0	2	99	0	2	1	4
Nursing	413	51	351	1	15	19	305	1	2	2	6
Pharmacy	164	71	89	0	16	5	47	0	0	1	0
Rehabilitation/Therapeutic Services	40	2	31	0	3	1	27	0	0	0	0
Veterinary Medicine	50	24	23	0	1	0	22	0	0	0	0
Health Sciences, General	50	10	26	0	1	4	20	0	0	1	0
Health Sciences, Other	129	31	90	0	18	5	61	1	0	0	5
AGRICULTURAL SCIENCES	1,085	493	563	5	37	24	456	7	7	17	10
Agricultural Economics	137	75	59	1	6	5	42	1	1	3	0
Agricultural Business & Management	5	2	3	0	0	1	2	0	0	0	0
Animal Breeding & Genetics	22	10	12	0	0	1	11	0	0	0	0
Animal Nutrition	46	22	23	0	0	1	22	0	0	0	0
Dairy Science	9	6	3	0	1	0	2	0	0	0	0
Poultry Science	9	3	6	0	0	0	6	0	0	0	0
Animal Sciences, Other	73	20	47	0	1	1	41	0	0	2	2
Agronomy & Crop Science	70	34	34	0	0	0	33	0	0	1	0
Plant Breeding & Genetics	68	41	26	0	0	1	22	0	0	2	1
Plant Pathology	63	34	29	0	2	3	21	1	1	1	0
Plant Sciences, Other	29	10	19	0	4	0	15	0	0	0	0
Food Engineering	10	7	3	0	0	0	2	0	1	0	0
Food Sciences, Other	142	80	59	1	11	5	37	1	3	0	1
Soil Chemistry/Microbiology	26	7	19	0	2	0	14	1	0	0	2
Soil Sciences, Other	64	35	28	0	4	1	20	1	0	1	1
Horticulture Science	55	29	23	0	3	2	16	0	0	2	0
Fisheries Science & Management	43	10	32	0	0	1	31	0	0	0	0
Forest Biology	22	8	14	0	0	0	14	0	0	0	0
Forest Engineering	3	1	2	0	1	0	1	0	0	0	0
Forest Management	13	6	7	0	0	1	6	0	0	0	0
Wood Sci. & Pulp/Paper Tech.	11	8	2	0	0	0	2	0	0	0	0
Conservation/Renewable Nat. Res.	19	6	13	0	0	1	9	1	0	2	0
Forestry & Related Sci., Other	54	19	34	1	1	0	30	0	0	1	1
Wildlife/Range Management	56	10	44	1	0	0	37	1	1	2	2
Agricultural Sciences, General	10	2	5	1	0	0	4	0	0	0	0
Agricultural Sciences, Other	26	8	17	0	1	0	16	0	0	0	0
SOCIAL SCIENCES & PSYCHOLOGY	7,115	1,039	5,688	40	307	368	4,551	78	87	121	136

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APPENDIX TABLE A-2. Number of doctorate recipients, by citizenship, race/ethnicity, and subfield, 2000 (continued)

Subfield of Doctorate	Total Doctorates	Non-U.S. Citizens Temp. Visas	U.S. Citizens and Non-U.S. with Permanent Visas								
			Total	American Indian	Asian	Black	White	Puerto Rican	Mexican American	Other Hispanic	Unknown Race
SOCIAL SCIENCES	3,492	875	2,467	18	158	175	1,960	18	27	47	76
Anthropology	446	55	382	5	19	21	309	2	2	8	16
Area Studies	14	4	9	0	0	1	7	0	0	0	1
Criminology	66	4	60	0	0	6	51	0	1	1	1
Demography/Population Studies	19	6	13	0	2	1	10	0	0	0	0
Economics	933	450	440	0	42	18	353	2	4	11	10
Econometrics	15	11	4	0	0	0	3	0	0	0	1
Geography	197	50	142	2	5	2	125	1	0	2	5
International Relations/Affairs	77	23	51	0	6	2	36	0	1	4	2
Political Science and Government	670	84	557	2	26	38	448	6	5	7	23
Public Policy Analysis	137	20	102	2	7	9	81	1	0	1	1
Sociology	615	88	500	6	30	56	373	4	13	8	10
Statistics	80	33	25	0	4	2	16	0	0	0	3
Urban Affairs/Studies	78	17	60	0	5	5	45	0	0	3	2
Social Sciences, General	39	8	24	0	1	3	20	0	0	0	0
Social Sciences, Other	126	25	98	1	9	11	73	0	1	2	1
PSYCHOLOGY	3,823	164	3,221	22	149	193	2,601	80	80	74	62
Clinical	1,357	27	1,254	6	59	67	1,014	31	28	28	21
Cognitive & Psycholinguistics	141	17	119	0	13	0	96	0	1	3	6
Comparative	7	0	7	0	0	0	6	0	0	1	0
Counseling	475	19	442	7	19	47	339	5	13	8	4
Developmental and Child	203	16	184	1	6	12	152	0	3	4	6
Human/Individual & Family	148	10	117	3	5	5	98	1	0	3	1
Experimental	133	15	115	1	6	3	98	1	1	2	3
Educational	97	7	76	0	5	7	62	0	1	1	0
Family & Marriage Counseling	54	4	47	0	0	1	42	1	0	1	2
Industrial & Organizational	188	11	158	1	3	10	137	6	2	5	4
Personality	23	1	20	1	1	1	16	1	0	0	0
Physiological/Psychobiology	89	7	79	0	2	7	67	0	0	2	1
Psychometrics	13	4	7	0	0	0	5	0	0	2	0
Quantitative	8	2	6	0	1	0	5	0	0	0	0
School	98	1	96	0	1	4	87	0	2	1	1
Social	209	7	192	0	12	11	156	2	6	2	3
Psychology, General	239	6	153	0	9	10	116	11	0	7	8
Psychology, Other	141	10	129	2	7	7	103	1	3	4	2
HUMANITIES	5,834	740	4,673	21	201	173	3,942	45	66	108	117
GENERAL HUMANITIES	3,781	516	3,067	17	131	113	2,611	17	37	58	83
History, American	442	10	428	5	11	23	374	0	5	3	7
History, Asian	51	12	39	0	8	0	30	0	0	0	1
History, European	243	19	224	2	1	1	205	0	4	3	8
History/Philosophy of Sci. & Tech.	42	4	35	0	0	1	32	0	0	1	1
History, General	103	11	73	2	1	6	53	1	0	3	7
History, Other	179	31	145	1	5	10	102	4	6	10	7
Classics	63	8	54	0	2	0	50	0	0	0	2
Comparative Literature	186	41	137	0	11	6	110	2	2	4	2
Linguistics	229	101	117	0	11	1	97	1	0	3	4
Speech & Rhetorical Studies	143	11	128	1	2	7	112	0	2	3	1
Letters, General	55	5	38	0	0	2	33	0	1	0	2
Letters, Other	92	2	90	0	3	6	78	0	1	1	1
American Studies	113	2	109	1	5	10	87	0	4	1	1
Archeology	36	7	29	0	0	0	28	0	1	0	0
Art History/Criticism/Conservation	228	20	201	1	8	4	172	1	1	3	11
Music	749	141	558	1	38	17	466	4	4	15	13
Philosophy	363	50	300	1	10	7	265	2	3	5	7
Religion	350	32	291	1	13	9	254	2	3	3	6
Drama/Theater Arts	82	9	71	1	2	3	63	0	0	0	2
LANGUAGE & LITERATURE	1,711	197	1,472	3	62	52	1,224	28	27	49	27
American Literature	460	29	417	2	11	32	345	3	9	8	7
English Literature	544	40	494	0	24	9	446	1	5	0	9
English Language	66	3	62	0	2	3	54	1	1	0	1
French	143	20	120	1	6	4	103	2	0	2	2
German	83	17	65	0	2	1	60	1	0	0	1
Italian	16	2	14	0	0	0	13	0	0	1	0
Spanish	218	52	162	0	4	1	91	17	11	35	3
Russian	29	1	28	0	0	1	27	0	0	0	0
Slavic	14	1	11	0	1	0	10	0	0	0	0
Chinese	21	7	14	0	7	0	7	0	0	0	0
Japanese	18	2	16	0	3	0	13	0	0	0	0
Hebrew	11	4	7	0	0	0	7	0	0	0	0
Arabic	15	2	11	0	0	0	11	0	0	0	0
Other Language & Literature	73	17	51	0	2	1	37	3	1	3	4
OTHER HUMANITIES	172	27	134	1	8	8	107	0	2	1	7
Humanities, General	40	4	36	1	0	3	30	0	0	0	2
Humanities, Other	132	23	98	0	8	5	77	0	2	1	5
EDUCATION	6,420	541	5,656	51	174	699	4,357	71	116	94	94
RESEARCH & ADMINISTRATION	4,936	340	4,450	41	113	572	3,431	61	98	89	85
Curriculum & Instruction	968	94	850	8	23	78	684	21	12	11	13
Educational Admin. & Supervision	810	31	735	10	13	119	534	19	25	4	11
Educational Leadership	1,199	29	1,137	7	15	198	848	5	29	14	21

APPENDIX TABLE A-2. Number of doctorate recipients, by citizenship, race/ethnicity, and subfield, 2000 (continued)

Subfield of Doctorate	Total Doctorates[a]	Non-U.S. Citizens Temp. Visas	U.S. Citizens and Non-U.S. with Permanent Visas								
			Total	American Indian[b]	Asian[c]	Black	White	Puerto Rican	Mexican American	Other Hispanic	Unknown Race
Educ./Instruct. Media Design	138	21	117	1	9	7	94	1	1	2	2
Educ. Stat./Research Methods	55	14	41	0	3	2	34	0	0	1	1
Educ. Assess., Test., & Meas.	45	13	29	0	5	1	21	0	2	0	0
Educational Psychology	278	31	242	1	11	13	200	3	4	7	3
School Psychology	137	5	130	0	4	6	110	0	5	3	2
Social/Phil. Found. Of Educ.	135	15	115	1	7	15	85	1	2	4	0
Special Education	269	19	233	2	4	26	180	5	8	4	4
Counseling Educ./Couns. & Guidance	214	13	195	4	2	23	156	4	1	5	0
Higher Educ./Evaluation & Research	436	21	410	3	11	65	312	1	8	5	5
Pre-elementary/Early Childhood	34	5	28	0	0	6	21	0	0	0	1
Elementary Education	53	6	46	1	1	2	39	0	1	2	0
Secondary Education	23	2	20	0	1	1	16	0	0	2	0
Adult & Continuing Education	150	21	122	3	4	10	97	1	0	5	2
TEACHING FIELDS	828	132	685	5	39	59	551	7	3	12	9
Agricultural Education	22	5	16	0	0	3	12	0	0	1	0
Art Education	31	11	20	1	2	3	14	0	0	0	0
Business Education	37	2	34	0	2	2	29	0	0	1	0
English Education	44	9	35	0	2	3	26	1	0	3	0
Foreign Languages Education	43	22	21	0	8	1	11	0	0	1	0
Health Education	71	7	62	0	1	7	52	1	1	0	0
Home Economics Education	14	6	8	0	1	1	6	0	0	0	0
Technical/Industrial Arts Education	21	3	18	0	1	0	15	0	0	0	0
Mathematics Education	91	15	76	0	4	9	59	1	1	1	1
Music Education	78	16	61	0	4	4	50	1	0	1	1
Nursing Education	11	1	10	0	1	2	7	0	0	0	0
Physical Education and Coaching	83	9	74	2	0	6	62	1	0	1	2
Reading Education	89	4	82	0	2	3	76	0	0	0	1
Science Education	60	8	51	0	3	3	43	1	0	0	1
Social Science Education	40	3	37	1	5	4	25	0	0	1	1
Technical Education	20	4	16	0	1	1	12	0	0	1	1
Trade & Industrial Education	12	2	10	1	0	1	8	0	0	0	0
Teacher Ed./Spec. Acad. & Voc., Other	61	5	56	0	2	6	44	1	1	1	1
OTHER EDUCATION	656	69	521	5	22	68	376	3	15	13	20
Education, General	255	28	181	1	8	36	113	3	3	5	12
Education, Other	401	41	340	4	14	32	262	0	12	8	8
PROFESSIONAL/OTHER FIELDS[d]	2,263	534	1,634	6	121	129	1,293	16	13	26	30
BUSINESS AND MANAGEMENT	1,071	296	724	4	69	43	571	4	5	12	16
Accounting	111	28	83	1	10	7	63	1	0	1	0
Banking/Financial Support Services	72	37	33	0	5	0	27	0	0	1	0
Business Admin. & Management	325	73	229	1	26	12	178	1	3	2	8
Business/Managerial Economics	82	23	28	0	3	1	23	0	0	1	0
International Business	34	11	18	0	0	2	14	1	0	0	1
Mgmt. Info. Sys./Bus. Data Proc.	85	32	52	0	7	2	40	0	0	2	1
Marketing Management & Research	140	42	96	1	8	8	74	1	2	1	1
Operations Research	61	22	36	0	5	1	27	0	0	1	2
Organizational Behavior	99	8	89	0	2	4	79	0	0	2	2
Bus. Mgmt./Admin. Serv., General	36	7	19	1	1	2	15	0	0	0	0
Bus. Mgmt./Admin. Serv., Other	56	15	41	0	2	4	33	0	0	1	1
COMMUNICATIONS	389	75	300	1	10	22	254	1	3	6	3
Communications Research	53	6	47	0	4	2	37	0	0	2	2
Mass Communications	153	30	109	1	5	7	92	1	1	2	0
Communications Theory	39	3	36	0	0	2	32	0	1	1	0
Communications, General	78	13	58	0	0	6	51	0	0	1	0
Communications, Other	66	14	50	0	1	5	42	0	1	0	1
OTHER PROFESSIONAL FIELDS	797	162	609	1	41	64	468	11	5	8	11
Architectural Environmental Design	60	24	35	0	2	2	28	0	0	2	1
Home Economics	23	7	16	0	0	2	13	0	0	1	0
Law	41	22	17	0	1	2	12	0	0	0	2
Library Science	45	15	28	0	1	3	18	1	2	0	3
Parks/Recreation/Leisure/Fitness	45	14	28	0	2	1	22	1	0	0	0
Public Administration	102	9	91	0	0	18	68	1	0	2	2
Social Work	259	20	226	1	16	27	160	8	2	1	2
Theology/Religious Education	170	24	146	0	17	8	118	0	1	2	0
Professional Fields, General	3	1	1	0	0	0	0	0	0	0	1
Professional Fields, Other	49	26	23	0	2	1	20	0	0	0	0
OTHER FIELDS	1	0	1	0	1	0	0	0	0	0	0

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. See inside the back cover for a description of fields as reported in this table.
Refer also to the explanatory note about this table in front of Appendix A.

[a] Includes 1,883 individuals who did not report their citizenship at time of doctorate. See the "Important Notice" for discussion of item response rate issues.
[b] Includes Alaskan Native.
[c] Includes Pacific Islander.
[d] Includes 5 persons for whom field was unknown.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE A-3a. Statistical profile of doctorate recipients, by major field, 2000

Total all doctorates

Characteristics		2000 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sci.	Mathematics	Computer Sciences	PHYSICAL SCIENCES[a]	ENGINEERING	Biochemistry	Other Biosciences	Health Sciences	Agricultural Sciences	LIFE SCIENCES
Number in Field		**41,368**	1,352	1,990	786	1,048	861	**6,077**	**5,330**	777	5,078	1,589	1,086	**8,529**
Men	%	56.0	86.1	68.4	69.1	75.3	83.3	75.6	83.7	58.0	54.7	33.0	71.2	53.0
Women		43.8	14.7	31.4	30.3	24.6	16.5	24.1	15.7	41.8	45.2	66.9	28.8	46.9
Unknown[b]		0.2	0.2	0.2	0.6	0.1	0.2	0.2	0.5	0.1	0.1	0.1	0.0	0.1
U.S. Citizenship	%	67.4	53.9	56.1	62.6	49.0	44.9	53.6	41.4	61.5	67.3	70.0	48.1	64.6
Non-U.S., Permanent Visa		4.7	5.6	6.0	4.5	5.2	8.2	5.9	5.8	8.6	6.2	4.7	5.8	5.9
Non-U.S., Temporary Visa		23.3	35.9	32.6	29.7	42.2	41.9	35.6	45.9	29.5	22.9	19.3	45.4	25.7
Unknown		4.6	4.6	5.3	6.0	3.6	4.9	4.9	6.2	2.4	3.7	6.0	2.7	3.9
Never Married	%	26.0	40.3	30.8	25.6	40.4	26.1	33.3	29.9	33.5	29.2	22.8	23.3	27.7
Married		63.4	43.2	63.0	63.1	46.9	66.5	60.1	66.0	62.5	63.4	64.4	62.3	64.6
Separated, Divorced		5.7	2.7	2.8	4.5	1.7	3.7	2.9	2.2	3.1	3.9	7.3	4.0	4.5
Marriage-like Relationship		5.3	5.0	4.1	6.1	3.8	4.3	4.5	3.1	0.7	6.1	5.2	3.5	5.5
Widowed		0.4	0.1	0.3	0.6	0.2	0.2	0.2	0.1	0.0	0.2	0.8	0.1	0.3
Unknown		9.3	8.8	9.1	10.2	7.1	10.1	8.9	9.7	8.3	7.2	9.6	8.8	7.4
Median Age at Doct.	Yrs	33.8	30.3	29.8	33.4	30.4	32.9	30.7	31.4	30.2	31.2	38.2	34.4	32.1
Percent with Bacc. in Same Field as Doctorate	%	52.3	69.5	73.7	41.0	69.5	37.0	62.6	74.0	28.7	53.8	43.3	81.4	49.3
Percent with Masters	%	73.2	63.8	39.9	71.5	74.2	80.4	61.1	79.3	34.0	40.8	80.3	88.1	53.3
Median Time Lapse from Bacc. to Doct.														
Total Time	Yrs	10.3	7.8	7.0	10.0	7.7	10.0	8.0	8.7	7.7	8.3	14.2	11.0	9.0
Registered Time		7.4	7.0	6.0	7.6	6.8	7.3	6.8	6.8	6.5	7.0	7.9	7.0	7.0
Postdoctoral Study Plans	%	25.1	48.3	47.6	45.9	30.9	9.5	39.3	19.9	74.5	66.5	17.1	33.5	53.6
Fellowship		13.2	19.5	22.5	18.7	16.1	3.3	17.5	6.5	47.6	39.6	9.9	10.6	31.1
Research Assoc.		8.9	27.6	23.5	25.7	12.5	5.0	20.2	11.6	20.6	17.9	4.7	20.8	18.1
Traineeship		0.9	0.1	0.5	0.4	1.0	0.7	0.5	1.0	0.9	2.7	1.0	0.6	1.9
Other Study		2.0	1.1	1.2	1.1	1.2	0.6	1.1	0.9	5.4	6.3	1.5	1.4	4.7
Planned Employment after Doctorate	%	65.2	42.4	42.8	43.6	61.8	80.4	51.4	69.8	19.7	26.3	73.0	59.0	38.6
Educ. Institution[c]		35.7	7.7	8.2	15.4	34.5	28.9	16.5	12.4	4.8	10.1	39.1	27.1	17.2
Industry/Business		17.1	27.7	29.5	14.4	20.6	43.6	27.8	48.3	12.4	9.0	13.5	18.0	11.0
Government		4.5	2.9	2.1	7.9	2.1	3.3	3.2	5.9	1.2	3.2	9.2	9.2	4.9
Nonprofit		3.5	1.0	0.8	1.7	1.4	1.2	1.0	1.1	0.3	1.2	6.9	2.7	2.4
Other & Unknown		4.5	3.1	2.4	4.3	3.1	3.5	3.1	2.1	1.2	2.8	4.3	4.0	3.0
Postdoc. Plans Unknown	%	9.7	9.3	9.6	10.4	7.3	10.1	9.3	10.2	5.8	7.2	9.9	7.8	7.8
Definite Postdoc. Study	%	18.4	37.6	36.3	31.9	24.1	8.5	30.4	13.2	57.8	51.1	12.6	19.5	40.5
Seeking Postdoc. Study		6.6	10.8	9.2	14.0	6.8	3.0	8.9	6.7	16.7	15.4	4.6	13.9	13.3
Definite Employment		45.8	27.0	30.1	31.2	45.3	62.4	36.7	49.2	12.1	18.7	54.7	40.8	26.4
Seeking Employment		19.4	15.4	12.7	12.5	16.5	16.0	14.7	20.7	7.6	9.6	18.3	18.2	12.1
Employment Commitments after Doctorate[d]		**18,952**	378	599	248	475	537	**2,232**	**2,821**	94	849	869	443	**2,255**
Primary Activity														
R & D	%	31.2	66.8	67.9	41.2	38.7	63.3	56.1	69.8	66.4	43.9	34.5	56.2	43.2
Teaching		36.0	16.5	18.5	27.8	46.1	22.5	26.0	11.0	21.3	27.7	37.5	25.1	30.7
Administration		12.4	2.9	2.0	4.1	1.7	3.7	2.7	2.1	3.2	4.4	11.3	3.4	6.8
Prof. Services		12.5	12.5	5.8	17.6	6.9	4.8	8.2	10.5	12.6	15.2	11.7	10.6	12.9
Other		3.4	6.1	3.0	6.1	2.7	3.2	3.9	4.1	3.2	4.8	2.3	3.2	3.6
Secondary Activity														
R & D	%	33.6	22.3	18.9	41.6	47.4	24.0	29.3	19.0	23.4	29.7	35.1	29.4	31.3
Teaching		18.1	7.7	5.8	16.3	16.2	24.6	14.0	14.3	11.7	14.5	18.9	23.6	17.9
Administration		13.9	13.0	26.4	9.0	6.5	10.2	14.1	18.0	19.1	19.1	15.3	18.8	17.5
Prof. Services		11.6	13.8	12.2	10.6	11.4	11.2	11.9	14.5	13.8	10.6	13.7	12.6	12.3
Other		3.0	1.6	1.7	4.1	1.5	3.2	2.2	3.4	4.3	2.4	2.8	3.4	2.7
No Secondary Activity		17.4	38.3	32.8	15.1	13.3	24.4	25.5	28.4	24.8	19.9	11.7	12.2	16.4
Activity(ies) Unknown	%	2.4	3.2	2.8	3.3	3.8	2.4	3.0	2.4	3.2	3.9	2.8	1.4	2.9
Region of Employment after Doctorate														
New England	%	6.8	7.2	6.8	6.1	6.6	7.6	7.9	6.5	17.0	8.2	7.9	2.7	7.4
Middle Atlantic		14.0	17.0	21.2	12.2	17.3	16.2	18.0	13.2	17.0	12.5	13.1	6.9	11.6
East No. Central		14.1	12.8	14.4	8.6	15.2	10.1	12.6	14.8	11.7	11.3	14.5	10.2	12.3
West No. Central		6.6	5.3	4.3	4.1	7.6	3.2	4.9	3.7	4.3	6.1	6.6	9.0	6.6
South Atlantic		17.1	11.7	15.2	13.9	14.5	12.1	13.6	11.5	19.1	17.3	19.7	11.5	17.2
East So. Central		4.6	1.9	3.5	2.0	3.3	2.4	2.7	3.1	0.0	3.1	5.3	5.2	4.2
West So. Central		8.3	5.9	6.6	19.2	8.4	7.3	8.6	8.6	3.2	8.2	7.7	7.2	7.6
Mountain		5.2	5.9	4.7	9.6	4.0	4.3	5.2	5.5	1.1	5.2	3.9	6.5	4.8
Pacific & Insular		13.6	23.4	13.4	11.4	13.7	26.4	18.1	21.2	16.0	17.2	9.2	11.5	12.9
Foreign		9.4	6.6	7.5	12.2	7.2	7.6	7.9	11.5	10.6	10.7	12.0	30.2	16.0
Region Unknown		0.2	1.3	0.2	0.4	0.4	0.7	0.6	0.3	0.0	0.1	0.1	0.0	0.1

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

[a] Physical sciences includes mathematics and computer sciences.

[b] Includes 5 respondents whose doctoral field was unknown.

[c] Includes 74 respondents not reporting gender.

APPENDIX TABLE A-3a. Statistical profile of doctorate recipients, by major field, 2000 (continued)

Total all doctorates

Psychology	Economics	Anthropology & Sociology	Political Sci/ International Rel.	Other Social Sciences	SOCIAL SCI. INCL. PSYCH.	TOTAL SCIENCES & ENGINEERING	History	American Literature	English Lang. & Lit.	Foreign Lang. & Lit.	Other Humanities	HUMANITIES	EDUCATION	Business & Management	Other Professional Fields	PROFESSIONAL/ OTHER FIELDS[a]	TOTAL NONSCIENCES
3,623	849	1,061	747	738	7,118	27,051	1,060	480	610	841	2,863	5,834	5,420	1,071	1,186	2,293	14,312
33.3	72.9	41.7	64.7	55.2	45.4	62.1	61.7	43.0	41.0	38.5	50.6	49.7	35.0	67.8	49.3	58.1	44.4
66.6	26.9	58.2	35.1	44.8	54.5	37.6	38.3	57.0	59.0	61.5	49.2	50.2	64.9	31.7	50.7	41.7	55.5
0.1	0.2	0.1	0.3	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.5	0.0	0.3	0.1
86.8	41.5	77.9	77.2	67.1	76.4	60.7	85.6	88.9	89.0	67.7	74.2	78.5	86.2	62.5	72.0	67.3	80.2
2.1	5.4	5.2	4.1	5.3	3.5	5.4	3.2	1.7	2.1	10.1	4.6	4.5	1.9	5.1	4.6	4.9	3.4
4.5	48.6	13.5	14.3	22.3	14.6	29.0	8.2	6.3	7.0	19.5	15.9	13.1	8.4	27.6	20.0	23.6	12.7
6.6	4.5	3.4	4.3	5.3	5.5	5.0	2.7	3.0	1.8	2.7	5.2	3.9	3.5	4.8	3.4	4.2	3.7
26.7	34.0	26.4	27.0	21.9	27.2	29.2	24.7	26.7	27.9	26.1	26.1	26.1	14.2	21.7	18.5	20.0	19.8
46.4	48.5	48.4	52.9	54.3	48.5	52.0	55.6	47.4	50.5	52.8	48.6	50.5	80.4	58.3	57.5	57.7	56.1
6.7	3.0	6.3	5.5	7.9	6.4	4.2	5.1	6.5	6.6	7.8	6.9	6.7	10.6	4.9	8.8	6.9	8.5
7.3	6.4	8.8	5.8	5.7	7.1	5.2	7.8	10.7	8.9	7.8	7.1	7.7	3.4	4.2	4.6	4.4	5.3
0.3	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.7	1.0	0.5	0.6	0.6	0.9	0.4	0.8	0.6	0.7
12.6	8.1	8.1	8.7	10.1	10.6	9.1	8.7	8.1	8.2	5.5	10.8	8.4	10.5	10.8	9.9	10.5	9.6
32.2	31.7	36.1	33.5	36.9	33.0	31.8	34.8	34.2	34.0	36.2	36.2	34.8	44.4	36.7	39.0	37.8	38.8
61.9	55.2	76.8	53.5	22.8	58.3	59.5	53.4	63.3	70.8	47.9	49.2	47.9	33.7	32.0	29.3	30.5	38.6
74.5	72.4	81.4	79.7	83.4	76.7	88.3	84.5	85.4	87.4	86.7	82.7	84.2	88.3	79.2	80.1	84.2	86.1
9.0	8.9	11.5	10.4	12.0	9.8	9.0	11.2	10.4	11.0	11.1	11.8	11.4	19.4	13.0	14.9	14.0	14.3
7.1	7.0	8.8	8.3	8.0	7.5	7.0	9.0	8.5	8.8	8.5	8.9	8.9	8.1	7.6	8.5	8.0	8.3
29.6	8.6	17.0	9.1	11.3	20.6	35.1	11.3	5.9	6.2	8.6	7.0	7.8	4.8	3.3	6.6	5.0	8.0
22.0	3.5	11.0	5.2	4.6	14.3	18.8	7.3	3.5	3.4	3.7	3.3	4.1	1.7	1.7	2.4	2.0	2.7
4.3	2.0	4.1	2.4	4.3	3.8	12.9	1.5	0.7	0.7	1.7	1.5	1.4	1.7	0.9	1.7	1.3	1.5
2.0	0.5	0.6	0.1	0.5	1.3	1.3	0.3	0.2	0.0	0.6	0.5	0.4	0.4	0.3	0.5	0.4	0.4
1.3	0.8	1.3	1.3	1.8	1.3	2.2	2.3	1.5	2.1	2.5	1.7	2.0	1.0	0.4	2.0	1.2	1.4
57.5	85.4	74.3	81.7	78.0	68.4	55.5	79.9	88.3	87.2	88.3	81.4	82.6	84.3	85.9	83.6	84.8	83.7
22.3	42.5	49.6	55.3	45.9	35.0	20.8	59.3	69.1	70.5	72.1	61.2	63.7	86.3	61.8	53.9	57.5	63.9
13.8	18.6	6.8	9.2	12.2	12.6	22.5	5.5	7.8	7.4	4.5	8.7	6.4	5.1	17.2	8.9	12.8	8.8
8.5	12.8	5.5	8.1	7.6	7.2	8.3	4.1	1.1	0.5	1.4	1.2	1.7	3.7	2.2	8.5	3.9	2.9
8.5	4.2	6.4	4.4	6.3	7.0	3.0	3.2	1.1	1.3	1.1	5.8	3.9	3.8	1.8	10.5	6.4	4.5
6.6	7.4	6.0	7.8	6.0	6.7	3.8	7.8	9.1	7.5	8.2	6.8	7.0	5.4	2.9	4.9	3.9	5.8
12.8	7.9	8.8	9.2	10.7	11.0	9.4	8.8	8.9	8.6	8.1	11.6	9.4	11.0	10.8	9.8	10.5	10.3
22.4	8.3	11.1	5.8	7.1	15.1	29.2	6.8	4.1	4.1	8.3	4.2	4.8	3.2	2.6	4.0	3.3	3.8
7.3	1.4	5.8	3.3	4.2	5.5	9.0	4.7	1.7	2.1	3.3	2.8	3.1	1.5	0.7	2.6	1.7	2.2
38.9	67.9	49.0	51.9	54.6	47.3	38.7	48.5	48.5	52.3	58.7	51.7	51.3	63.7	71.0	63.2	66.7	59.3
18.6	17.5	25.3	29.7	23.4	21.1	16.7	33.4	39.8	34.9	28.7	29.7	31.4	20.6	14.9	20.4	17.8	24.4
1,411	844	520	386	402	3,565	10,473	493	223	319	376	1,491	2,902	4,067	760	760	1,519	8,489
19.0	53.1	31.5	24.7	31.1	29.6	48.2	11.2	8.7	8.0	9.0	8.7	8.7	7.0	32.8	11.3	22.1	10.3
20.6	25.0	49.6	57.0	46.5	33.2	25.6	72.4	77.1	79.0	82.4	71.7	74.4	39.4	44.3	55.9	50.1	53.2
5.8	3.6	8.1	7.2	9.2	6.3	4.8	5.5	5.8	5.6	4.0	5.1	5.1	38.0	7.8	13.9	10.8	22.0
48.8	12.0	8.7	5.7	7.7	25.3	15.3	6.5	4.0	2.8	1.3	7.3	5.8	11.1	8.9	12.8	10.9	9.2
3.7	4.2	2.5	3.6	3.7	3.8	3.8	3.4	4.5	4.1	1.1	5.1	4.1	2.1	3.3	3.5	3.4	3.0
27.1	34.9	45.4	51.3	46.8	36.8	29.5	56.4	56.5	58.3	66.5	46.3	52.7	26.4	43.6	48.3	44.9	38.7
19.9	28.1	21.3	19.3	19.7	21.6	17.3	11.2	12.1	10.0	9.8	12.6	11.8	21.4	35.5	18.8	27.2	19.1
18.4	10.1	11.2	9.8	10.9	13.8	15.7	11.2	9.0	10.3	7.7	12.8	11.2	12.8	8.9	11.9	8.9	11.8
11.6	7.5	7.9	5.4	9.0	9.2	11.8	4.5	4.9	4.7	4.3	7.2	5.9	18.8	4.2	10.5	7.4	11.4
3.8	3.6	1.7	2.8	1.5	3.1	2.9	4.1	2.7	3.1	1.3	6.2	4.6	2.8	1.2	1.3	1.3	3.1
17.0	13.8	11.0	9.5	10.4	13.8	20.3	11.8	13.0	11.3	8.2	12.9	11.9	17.5	8.8	8.5	7.5	13.8
2.1	2.0	1.5	1.8	1.7	1.9	2.5	1.0	1.8	2.2	2.1	2.1	1.9	2.3	3.0	2.7	2.8	2.3
8.7	8.7	8.8	8.7	8.2	7.4	7.3	8.7	8.1	8.5	10.6	7.1	7.8	8.2	7.1	5.6	6.3	8.3
18.0	12.6	14.4	14.2	18.0	15.7	14.7	16.2	12.6	16.3	16.0	12.6	14.2	11.9	13.7	14.0	13.9	13.0
14.2	9.5	12.3	13.7	15.0	13.0	13.2	15.2	13.5	16.0	16.1	16.7	16.3	18.1	14.1	13.4	13.7	15.2
7.6	1.7	8.7	4.8	5.5	5.7	8.3	8.1	4.0	7.8	10.1	10.0	8.8	8.6	4.9	7.7	8.3	8.2
18.3	23.8	17.7	21.6	21.7	20.0	15.9	16.9	18.4	15.9	14.6	14.3	15.7	20.9	16.3	19.4	17.8	16.6
4.1	2.0	3.1	2.6	3.7	3.3	3.3	6.7	7.2	6.6	3.5	4.6	5.0	6.9	5.5	6.7	6.1	6.1
8.4	5.9	5.4	9.5	8.2	7.2	7.9	5.9	7.6	7.5	8.9	8.2	7.5	9.6	9.1	8.6	8.9	8.8
5.3	2.2	5.8	3.4	3.7	4.4	4.9	5.9	6.3	3.4	3.2	4.6	4.8	6.3	5.5	6.1	5.8	5.6
15.0	9.9	14.2	11.9	10.0	13.0	18.1	11.4	16.1	14.7	9.6	10.7	11.5	10.4	10.5	7.5	9.0	10.5
2.2	25.6	11.5	11.9	9.7	10.1	11.0	8.1	6.3	3.8	7.2	10.8	8.4	5.0	12.8	10.4	11.6	7.3
0.2	0.3	0.0	0.0	0.2	0.2	0.3	0.0	0.0	0.6	0.3	0.1	0.2	0.1	0.5	0.5	0.5	0.2

[a] Includes 2-year, 4-year, foreign colleges/universities, medical schools, and elementary/secondary schools.
[b] Includes only doctorate recipients with definite employment plans.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE A-3b. Statistical profile of doctorate recipients, by major field, 2000

Total men

Characteristics		2000 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sci.	Mathematics	Computer Sciences	PHYSICAL SCIENCES[a]	ENGINEERING	Biochemistry	Other Biosciences	Health Sciences	Agricultural Sciences	LIFE SCIENCES
Total Men		**23,173**	1,185	1,362	543	789	717	**4,596**	**4,453**	481	2,777	524	772	**4,554**
Men as a Percent of Total Doctorates	%	56.0	85.1	68.4	69.1	75.3	83.3	75.6	83.7	58.0	54.7	33.0	71.2	53.0
U.S. Citizenship	%	60.9	54.7	54.4	61.3	46.8	43.8	52.3	40.1	60.1	65.6	69.0	43.5	60.5
Non-U.S., Permanent Visa		4.9	5.1	5.4	4.2	4.4	8.1	5.4	6.3	6.0	5.7	6.1	5.3	5.7
Non-U.S., Temporary Visa		29.5	35.8	34.9	27.6	45.5	43.5	37.4	48.0	31.3	25.0	27.3	48.1	29.8
Unknown		4.7	4.4	5.4	6.8	3.3	4.8	4.8	5.6	2.7	3.7	7.8	3.1	4.0
Never Married	%	26.8	40.8	31.1	24.7	42.8	27.9	34.3	30.0	31.7	28.3	21.0	19.8	26.3
Married		66.2	43.4	63.7	65.6	45.4	66.2	60.2	65.9	64.3	65.7	66.2	68.3	66.0
Separated, Divorced		3.5	2.4	2.3	3.7	1.4	2.4	2.3	2.1	3.3	3.5	3.4	2.8	3.3
Marriage-like Relationship		4.5	5.0	3.5	5.0	3.8	4.0	4.2	2.9	4.4	5.4	5.7	2.5	4.8
Widowed		0.1	0.0	0.2	0.4	0.0	0.1	0.1	0.1	0.0	0.1	0.2	0.0	0.1
Unknown		8.9	8.4	9.2	10.7	6.6	9.3	8.7	9.1	6.2	7.1	11.5	6.7	7.4
Median Age at Doctorate	Yrs	33.0	30.4	30.1	33.2	30.4	32.8	30.8	31.6	30.4	31.5	35.3	34.8	32.0
Percent with Bacc. in Same Field as Doctorate	%	54.5	68.9	72.8	44.0	68.6	37.5	62.4	75.4	32.2	51.3	27.9	54.7	47.2
Percent with Masters	%	72.1	63.5	41.2	72.4	72.1	80.1	62.0	90.4	31.5	42.0	72.5	86.5	52.1
Median Time Lapse from Bacc. to Doct.														
Total Time	Yrs	9.9	7.7	7.0	10.3	7.7	9.8	8.0	8.8	7.8	8.5	12.0	11.5	8.9
Registered Time		7.3	7.0	6.1	7.6	6.7	7.3	6.8	6.8	6.5	6.9	7.2	7.0	6.9
Postdoctoral Study Plans	%	26.8	48.4	50.1	44.2	33.5	9.6	39.8	19.8	74.3	68.3	17.2	30.8	56.6
Fellowship		13.1	20.3	23.9	18.2	17.6	3.5	18.0	6.4	46.6	36.3	8.8	9.8	30.8
Research Assoc.		10.6	26.9	24.5	24.5	13.1	5.0	20.1	11.5	21.1	18.9	5.9	18.9	17.8
Traineeship		1.0	0.1	0.4	0.4	1.3	0.7	0.5	1.0	1.1	3.3	1.7	0.5	2.4
Other Study		2.1	1.1	1.2	1.1	1.5	0.4	1.1	0.9	5.5	7.8	1.0	1.6	5.7
Planned Employment after Doctorate	%	63.8	42.4	40.0	45.1	59.8	81.0	51.0	70.6	19.5	24.8	71.2	61.5	36.8
Educ. Institution[b]		31.3	7.7	7.8	16.0	31.4	27.8	15.9	12.1	3.5	9.8	34.2	28.1	15.1
Industry/Business		21.5	27.8	28.4	15.8	21.3	45.9	28.3	49.6	13.5	8.9	20.0	17.1	12.0
Government		4.9	3.2	1.5	8.1	2.5	3.1	3.2	6.1	1.6	3.2	10.1	9.6	4.9
Nonprofit		2.7	0.8	0.5	1.5	1.0	1.3	0.9	1.0	0.2	0.8	4.6	2.8	1.5
Other & Unknown		3.4	2.9	1.8	3.7	3.3	3.1	2.7	1.9	0.7	2.1	2.3	3.9	2.3
Postdoc. Plans Unknown	%	9.4	9.2	9.8	10.7	7.0	9.3	9.2	9.6	6.2	7.1	11.8	7.8	7.6
Definite Postdoc. Study	%	19.9	38.1	40.3	30.6	26.1	6.4	30.9	13.2	67.2	63.2	12.8	18.5	43.0
Seeking Postdoc. Study		6.9	10.2	9.8	13.6	7.4	3.2	8.9	6.5	17.1	15.1	4.4	12.3	13.8
Definite Employment		45.7	27.6	29.1	33.3	43.7	62.3	36.9	50.2	12.4	16.3	54.8	43.7	25.1
Seeking Employment		18.1	14.9	10.9	11.8	15.8	18.7	14.1	20.5	7.1	8.3	16.4	17.9	10.7
Employment Commitments after Doctorate[c]		**10,586**	327	397	181	345	447	**1,697**	**2,240**	86	484	287	337	**1,124**
Primary Activity														
R & D	%	38.9	60.2	68.3	42.0	42.0	64.9	57.7	70.4	62.5	46.9	43.9	58.5	50.4
Teaching		33.5	15.3	18.4	26.5	41.4	22.1	24.3	10.7	16.1	23.1	31.0	22.8	24.7
Administration		9.9	3.1	2.3	3.3	2.3	3.1	2.8	2.1	3.6	4.0	9.8	3.6	5.3
Prof. Services		11.4	12.8	5.5	18.8	7.2	4.5	8.4	10.5	10.7	16.3	11.1	11.0	13.1
Other		3.7	5.2	2.3	6.1	2.9	3.1	3.6	4.0	3.6	5.3	2.4	3.6	4.0
Secondary Activity														
R & D	%	32.1	21.7	19.9	42.5	43.5	24.8	28.8	19.1	17.9	30.4	34.1	27.8	29.9
Teaching		18.4	7.0	6.3	16.0	17.7	23.0	14.2	13.8	16.1	18.1	18.8	24.0	19.1
Administration		15.3	13.5	29.7	9.9	7.5	10.3	14.8	19.4	21.4	21.8	19.5	19.9	20.6
Prof. Services		11.1	14.4	12.1	10.5	12.2	11.4	12.2	15.0	12.5	7.7	11.8	12.2	10.3
Other		2.7	1.8	1.5	2.8	1.2	3.1	2.1	3.4	5.4	1.8	2.4	3.8	2.6
No Secondary Activity		17.8	38.2	27.5	14.9	13.9	25.1	24.8	27.1	23.2	17.8	11.5	12.2	14.8
Activity(ies) Unknown	%	2.5	3.4	3.0	3.3	4.1	2.2	3.1	2.3	3.6	4.4	1.7	0.8	2.6
Region of Employment after Doctorate														
New England	%	7.0	6.4	8.1	6.6	9.0	8.3	7.6	6.7	16.1	9.7	8.7	2.7	7.7
Middle Atlantic		13.5	16.8	18.6	13.3	17.4	18.1	17.3	12.8	12.5	11.0	13.6	5.5	10.1
East No. Central		13.9	13.8	16.1	9.9	13.3	9.6	12.7	15.1	14.3	10.6	13.2	10.1	11.3
West No. Central		5.8	4.9	4.8	3.3	7.0	3.8	4.8	3.5	5.4	6.8	5.2	7.4	6.4
South Atlantic		15.5	12.5	14.1	12.2	13.6	11.8	12.8	10.6	16.1	17.8	19.2	11.8	16.2
East So. Central		4.2	1.8	3.8	1.7	2.3	1.8	2.4	3.2	0.0	3.1	4.2	5.9	4.1
West So. Central		8.3	8.4	6.5	19.9	9.6	6.0	8.4	8.8	1.8	7.9	6.3	7.1	7.0
Mountain		5.2	6.1	5.0	8.8	4.3	4.5	5.4	5.8	1.8	4.4	5.2	6.2	5.0
Pacific & Insular		14.3	23.2	13.4	11.6	14.8	27.5	19.1	21.4	19.6	14.8	9.1	11.0	12.4
Foreign		11.9	6.7	9.3	12.7	8.1	8.1	8.6	12.1	12.5	14.1	15.0	32.3	19.7
Region Unknown		0.3	1.2	0.3	0.0	0.6	0.7	0.6	0.3	0.0	0.0	0.3	0.0	0.1

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.
[a] Physical sciences includes mathematics and computer sciences.
[b] Includes 2-year, 4-year, foreign colleges/universities, medical schools, and elementary/secondary schools.

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APPENDIX TABLE A-3b. Statistical profile of doctorate recipients, by major field, 2000 (continued)

Total men

Psychology	Economics	Anthropology & Sociology	Political Sci./ International Rel.	Other Social Sciences	SOCIAL SCI. INCL. PSYCH.	TOTAL SCIENCES & ENGINEERING	History	American Literature	English Lang. & Lit.	Foreign Lang. & Lit.	Other Humanities	HUMANITIES	EDUCATION	Business & Management	Other Professional Fields	PROFESSIONAL/ OTHER FIELDS[a]	TOTAL NONSCIENCES
1,306	891	442	483	406	3,227	19,810	654	198	250	247	1,450	2,799	2,250	726	586	1,314	8,381
33.3	72.9	41.7	64.7	55.2	45.4	62.1	61.7	43.0	41.0	36.5	50.6	49.7	35.0	57.8	49.3	58.1	44.4
84.2	41.2	74.7	76.8	63.5	70.0	54.7	66.2	66.9	90.8	66.2	75.7	79.5	83.3	58.0	67.2	62.0	77.3
2.5	5.1	5.4	4.6	6.2	4.2	5.5	3.2	1.0	0.4	8.9	4.1	3.8	1.9	4.1	5.8	4.8	3.3
5.8	49.6	16.7	14.7	24.9	20.4	34.9	8.3	7.1	6.4	22.3	14.3	12.4	10.9	32.9	23.9	26.9	16.2
7.8	4.1	3.2	3.9	5.4	5.4	4.9	2.3	3.0	2.4	3.8	5.9	4.3	3.9	5.0	3.2	4.3	4.1
25.9	33.7	24.4	26.7	20.7	26.8	29.6	25.8	27.8	28.4	25.5	24.0	25.2	13.6	20.0	13.7	17.1	19.4
49.8	49.9	55.4	56.7	59.1	52.8	54.3	58.9	49.0	55.6	53.0	52.4	54.0	68.5	61.4	66.0	63.3	61.1
3.9	3.0	5.2	5.2	6.7	4.4	2.9	2.9	5.1	4.0	6.1	5.4	4.8	5.3	3.7	6.2	4.8	5.0
7.1	6.1	7.9	3.5	4.9	6.2	4.4	6.4	11.1	5.2	9.3	6.8	7.1	2.4	4.1	3.1	3.7	4.7
0.2	0.0	0.0	0.2	0.2	0.1	0.1	0.3	0.0	0.0	0.4	0.2	0.2	0.1	0.1	0.3	0.2	0.2
13.2	7.2	7.0	7.7	8.4	9.6	8.7	5.7	7.1	6.8	8.7	11.1	8.7	10.0	10.6	10.8	10.9	9.6
32.7	32.2	35.2	33.6	36.1	33.3	31.8	34.7	34.6	34.0	35.2	35.4	35.0	43.5	36.7	36.8	37.5	37.9
60.2	55.6	76.2	55.9	25.4	56.4	60.6	54.4	62.6	71.2	46.3	49.9	49.3	29.6	30.7	28.2	29.5	38.3
73.9	72.6	82.6	81.8	84.5	77.4	67.2	85.2	82.3	85.2	87.0	82.3	83.7	88.8	79.1	87.4	82.6	85.3
9.0	9.1	11.4	10.5	12.0	10.0	8.8	11.0	11.0	10.7	11.2	12.0	11.6	18.6	13.2	14.3	13.7	13.9
7.2	7.0	8.5	8.3	8.0	7.5	7.0	8.7	8.6	8.3	8.5	8.7	8.6	8.0	7.8	8.9	8.0	8.3
27.0	6.8	17.2	9.7	11.3	16.8	34.6	12.1	6.6	8.4	8.5	6.3	8.0	5.5	3.2	6.3	4.6	6.4
19.6	3.5	10.6	5.8	4.4	10.9	17.0	7.5	3.5	3.6	3.8	2.6	4.0	2.3	1.8	1.5	1.7	2.9
4.9	2.0	4.8	2.5	4.4	3.8	14.0	1.4	0.5	1.6	2.0	1.4	1.4	1.8	0.7	2.8	1.5	1.5
1.5	0.4	0.7	0.2	0.7	0.9	1.2	0.3	0.5	0.0	0.4	0.6	0.4	0.4	0.3	1.0	0.6	0.6
1.0	0.9	1.1	1.2	1.7	1.1	2.3	2.9	2.0	3.2	2.4	1.7	2.2	1.2	0.4	1.2	0.8	1.6
59.7	65.7	78.3	82.0	79.6	73.2	56.4	79.6	86.9	83.6	85.4	82.2	82.4	83.8	85.5	83.1	84.2	83.3
22.7	44.0	51.4	56.5	48.0	39.4	19.2	60.2	69.7	70.0	74.5	61.6	63.7	56.9	60.6	50.3	55.9	63.3
15.9	18.4	7.2	9.1	11.8	13.7	26.8	5.0	9.1	6.8	4.5	7.3	6.6	5.3	17.8	9.1	13.9	7.6
8.5	13.6	5.7	5.8	7.6	8.7	5.5	4.9	0.5	0.4	1.2	1.1	1.9	4.5	2.8	6.8	4.8	3.4
7.8	3.8	5.7	3.7	5.4	5.7	2.0	3.2	0.0	1.6	0.8	5.8	4.5	3.6	1.5	12.3	6.3	4.6
4.8	5.9	5.4	5.8	6.7	5.7	2.9	5.4	7.6	4.8	4.5	5.4	5.6	3.4	2.9	4.6	3.7	4.4
13.4	7.5	7.5	8.3	9.1	10.0	9.0	8.1	6.6	8.0	6.1	11.5	9.6	10.7	11.3	10.8	11.2	10.3
21.2	5.2	11.1	6.0	6.9	12.3	25.9	6.6	5.1	5.6	4.9	4.2	5.0	3.8	2.3	3.8	3.0	4.2
5.8	1.6	5.1	3.7	4.4	4.5	8.7	5.5	1.5	2.8	3.6	2.1	3.0	1.7	0.8	2.6	1.8	2.3
42.0	69.5	50.0	51.6	58.4	52.5	40.2	44.6	43.9	51.6	62.3	53.8	51.5	66.0	71.9	63.6	68.0	60.1
17.7	16.2	25.3	30.4	21.2	20.8	16.2	35.2	42.9	32.0	23.1	28.4	30.9	17.7	13.6	19.5	16.2	23.2
508	480	231	249	237	1,693	8,754	292	87	129	154	780	1,442	1,488	522	372	894	3,822
21.1	52.7	32.6	23.3	33.8	33.7	54.7	7.9	10.3	7.8	9.1	7.6	8.0	6.7	31.6	12.1	23.5	11.1
21.6	25.8	46.8	56.2	44.7	34.3	22.4	74.3	75.9	74.4	83.1	70.3	73.2	37.7	43.5	52.7	47.3	53.3
8.9	3.8	6.8	8.0	7.6	8.0	3.8	6.2	5.7	10.1	4.5	5.3	5.6	41.7	8.4	12.9	10.3	20.8
49.2	12.1	7.7	6.4	8.0	20.3	12.9	8.2	4.6	0.8	1.3	9.1	7.1	8.9	8.8	14.2	11.1	8.7
2.8	3.5	3.6	4.4	3.4	3.4	3.7	2.4	3.4	6.2	1.3	5.6	4.4	2.2	3.8	4.8	4.3	3.5
27.9	35.2	43.0	49.4	46.8	37.7	28.0	55.8	49.4	62.8	69.5	44.5	51.4	26.4	42.7	41.4	42.2	39.6
19.8	30.4	24.0	20.9	21.5	23.7	17.3	9.9	13.8	14.0	11.7	12.3	12.0	24.0	34.3	20.2	28.4	20.5
20.4	10.6	10.9	9.6	11.0	13.5	17.0	13.0	12.6	5.4	6.5	13.6	11.9	13.9	7.1	15.6	10.6	12.4
13.6	6.3	5.4	5.6	8.9	8.6	11.9	4.5	8.0	6.2	3.2	7.2	6.2	14.7	3.8	11.6	7.0	9.7
3.2	3.3	1.8	2.8	1.7	2.8	2.8	2.4	3.4	0.0	0.0	5.8	3.8	2.6	1.1	0.8	1.0	2.7
13.0	12.1	12.2	10.0	7.6	11.5	20.5	13.4	12.6	10.9	8.4	14.6	13.2	15.8	7.1	7.3	7.2	12.8
2.4	2.1	2.7	1.6	2.5	2.2	2.5	1.0	0.0	0.8	0.6	2.1	1.5	2.6	3.8	3.2	3.6	2.4
8.3	7.5	8.1	7.2	6.4	7.8	7.4	9.2	8.0	3.9	8.4	6.3	7.0	5.5	7.7	6.2	7.0	6.4
16.2	12.1	17.2	14.1	14.8	14.7	13.9	16.8	10.3	15.5	13.0	13.6	14.1	12.1	12.5	11.0	11.9	12.6
14.0	10.2	9.5	12.4	15.3	12.3	13.2	14.4	17.2	18.6	16.2	16.8	16.4	15.3	14.0	11.8	13.1	15.2
7.5	1.7	7.2	5.2	4.7	5.1	4.7	7.5	4.6	5.4	7.8	8.3	7.6	9.1	5.6	8.5	8.9	7.8
19.0	21.7	15.4	21.3	22.0	20.0	14.5	15.6	21.8	15.5	23.4	13.2	15.5	18.7	17.0	20.2	18.3	17.4
4.2	1.9	2.3	2.4	3.4	2.9	3.1	6.2	11.5	7.8	2.6	5.0	5.6	6.5	5.7	7.5	6.5	6.1
8.7	4.6	6.8	9.6	6.5	7.4	8.0	6.5	6.9	7.8	7.1	8.7	7.7	9.2	10.2	9.9	10.1	8.8
6.7	1.7	3.6	3.2	3.4	3.9	5.1	6.5	3.4	3.1	3.2	5.9	5.3	6.3	3.6	5.6	4.8	5.5
12.8	8.8	15.4	12.0	8.5	11.3	16.8	12.3	12.6	19.4	8.4	10.1	11.4	9.6	8.8	8.7	7.9	9.9
2.4	29.6	14.5	12.4	12.7	14.6	13.1	5.8	3.4	3.1	9.7	11.9	9.2	7.8	14.4	14.0	14.2	9.7
0.2	0.4	0.0	0.0	0.4	0.2	0.3	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.6	0.5	0.6	0.2

[a] Includes only doctorate recipients with definite employment plans.
[b] Includes 2 respondents whose doctoral field was unknown.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE A-3c. Statistical profile of doctorate recipients, by major field, 2000

Total women

Characteristics		2000 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sci.	Mathematics	Computer Sciences	PHYSICAL SCIENCES[a]	ENGINEERING	Biochemistry	Other Biosciences	Health Sciences	Agricultural Sciences	LIFE SCIENCES
Total Women		**18,121**	204	624	238	258	142	**1,466**	**532**	325	2,298	1,063	313	**3,997**
Women as a Percent of Total Doctorates	%	43.8	14.7	31.4	30.3	24.6	18.5	24.1	15.7	41.8	48.2	66.9	28.8	46.9
U.S. Citizenship	%	76.0	50.0	60.1	67.6	56.8	51.4	58.3	49.6	63.7	69.5	75.6	52.4	69.3
Non-U.S., Permanent Visa		4.5	8.3	7.5	5.0	7.4	9.2	7.4	8.1	7.4	6.8	4.0	7.0	6.2
Non-U.S., Temporary Visa		15.5	37.3	27.7	25.2	32.2	34.5	30.1	36.0	27.1	20.3	15.3	39.0	21.0
Unknown		4.0	4.4	4.6	2.1	4.7	4.9	4.2	6.3	1.8	3.4	5.0	1.6	3.5
Never Married	%	25.0	38.2	30.3	28.2	32.9	17.6	30.3	30.6	36.0	30.5	23.7	32.6	29.3
Married		50.2	43.1	51.8	48.3	51.6	52.8	50.1	52.0	50.2	50.6	52.6	47.6	50.9
Separated, Divorced		8.5	4.4	4.0	6.3	2.7	10.6	4.8	3.0	2.8	4.5	9.2	6.7	5.8
Marriage-like Relationship		6.3	5.4	5.3	8.8	3.9	5.6	5.7	4.3	7.4	7.0	4.9	5.8	6.4
Widowed		0.7	0.5	0.3	1.3	0.8	0.7	0.6	0.2	0.0	0.3	1.0	0.3	0.5
Unknown		9.3	8.3	8.3	7.1	8.1	12.7	8.5	9.9	3.7	7.2	8.6	7.0	7.3
Median Age at Doctorate	Yrs	34.5	29.8	29.4	33.6	30.3	34.1	30.3	30.6	30.0	30.8	40.2	33.3	32.2
Percent with Bacc. in Same Field as Doctorate	%	49.8	68.6	76.3	34.9	72.5	36.2	63.8	68.9	24.0	57.0	51.0	43.5	51.6
Percent with Masters	%	74.7	64.7	37.5	71.0	81.0	83.1	58.9	75.6	37.5	39.4	84.3	85.0	64.7
Median Time Lapse from Bacc. to Doct.														
Total Time	Yrs	11.0	7.3	7.0	9.6	7.8	11.3	7.8	8.2	7.8	8.2	15.4	10.2	9.3
Registered Time		7.6	6.6	6.0	7.7	7.0	8.0	6.6	6.7	6.5	7.0	8.0	7.1	7.0
Postdoctoral Study Plans	%	22.9	49.0	42.3	50.8	23.3	9.2	39.1	21.5	75.1	64.5	17.1	39.9	50.8
Fellowship		13.4	15.7	19.4	20.2	11.6	2.1	16.0	7.3	49.2	41.2	10.6	12.5	31.5
Research Assoc.		6.8	31.9	21.5	29.0	10.9	4.9	20.7	12.0	20.0	18.9	4.0	25.6	14.4
Traineeship		0.9	0.0	0.5	0.4	0.4	0.7	0.4	1.2	0.6	1.9	0.7	1.0	1.4
Other Study		1.8	1.5	1.0	1.3	0.4	1.4	1.0	1.0	5.2	4.5	1.8	1.0	3.6
Planned Employment after Doctorate	%	67.4	42.6	49.0	41.2	69.0	78.2	53.2	67.8	20.0	28.4	74.0	52.7	41.8
Educ. Institution[b]		41.5	7.8	9.3	14.3	44.2	36.2	18.6	14.7	6.5	10.5	41.7	24.6	19.6
Industry/Business		11.5	27.0	32.1	11.3	18.6	32.4	25.6	42.7	10.8	9.2	10.3	13.4	10.0
Government		4.0	1.5	3.2	7.6	0.8	4.2	3.3	5.2	0.6	3.4	8.7	8.3	5.0
Nonprofit		4.4	2.0	0.6	2.1	2.7	0.7	1.4	1.9	0.3	1.8	8.0	2.2	3.4
Other & Unknown		6.0	4.4	3.8	5.9	2.7	5.6	4.2	3.3	1.8	3.8	5.3	4.2	4.0
Postdoc. Plans Unknown	%	9.7	8.3	8.7	8.0	7.8	12.7	8.7	10.7	4.9	7.1	8.8	7.3	7.4
Definite Postdoc. Study	%	16.6	34.8	34.3	35.7	18.2	7.0	29.1	13.6	56.8	48.6	12.4	22.0	37.8
Seeking Postdoc. Study		6.3	14.2	8.0	15.1	5.0	2.1	8.9	7.9	16.3	15.8	4.7	17.9	13.1
Definite Employment		46.2	24.0	32.4	26.9	50.4	63.4	36.5	45.4	11.7	17.2	64.8	33.9	28.0
Seeking Employment		21.2	16.6	16.7	14.3	18.6	14.8	16.7	22.4	8.3	11.2	19.3	18.8	13.7
Employment Commitments after Doctorate[c]		**8,378**	49	202	84	130	90	**535**	**381**	38	396	882	108	**1,121**
Primary Activity														
R & D	%	21.5	49.0	67.3	39.1	30.0	55.6	51.2	66.1	47.4	40.5	29.9	49.1	36.0
Teaching		43.6	24.5	18.8	31.3	56.5	24.4	31.4	13.1	28.9	32.9	40.7	32.1	36.8
Administration		15.5	2.0	1.5	6.3	0.0	6.7	2.6	2.1	2.6	4.8	12.0	2.8	6.3
Prof. Services		14.0	10.2	8.4	14.1	6.2	6.7	7.7	10.5	15.8	13.9	12.0	9.4	12.6
Other		3.1	12.2	4.5	6.3	2.3	3.3	4.7	6.0	2.6	4.3	2.2	1.9	2.9
Secondary Activity														
R & D	%	35.4	26.5	16.8	39.1	57.7	20.0	30.6	18.9	31.6	28.9	35.6	31.1	32.6
Teaching		17.8	12.2	5.0	17.2	12.3	32.2	13.5	16.8	5.3	12.7	18.9	21.7	18.5
Administration		12.0	10.2	19.8	6.3	3.8	10.0	11.8	10.2	15.8	15.9	13.2	14.2	14.4
Prof. Services		12.2	10.2	12.4	10.9	9.2	10.0	10.8	11.8	15.8	13.9	14.6	14.2	14.4
Other		3.3	0.0	2.0	7.8	2.3	3.3	2.8	3.1	2.6	3.0	2.7	2.8	2.9
No Secondary Activity		17.0	38.8	42.6	15.6	11.5	21.1	27.9	36.0	26.3	22.3	11.9	12.3	16.1
Activity(ies) Unknown	%	2.2	2.0	1.5	3.1	3.1	3.3	2.4	3.1	2.6	3.3	3.1	3.8	3.2
Region of Employment after Doctorate														
New England	%	8.6	12.2	10.4	4.7	7.7	4.4	8.2	8.8	18.4	8.6	7.8	2.8	7.1
Middle Atlantic		14.5	18.4	26.2	9.4	16.9	18.9	20.0	17.1	23.7	14.2	12.9	8.6	13.1
East No. Central		14.4	8.1	10.9	4.7	20.0	12.2	12.1	12.9	7.9	12.2	15.1	10.4	13.4
West No. Central		7.5	8.2	3.5	6.3	9.2	0.0	5.0	4.7	2.6	5.8	7.2	14.2	7.1
South Atlantic		19.1	8.1	17.3	18.8	16.9	14.4	15.9	16.8	23.7	16.7	19.9	11.3	16.1
East So. Central		5.1	2.0	3.0	3.1	6.4	6.6	3.9	2.8	0.0	3.0	6.8	2.8	4.4
West So. Central		6.3	10.2	7.4	17.2	6.4	13.3	9.3	7.6	5.3	6.8	6.4	7.5	8.3
Mountain		5.2	4.1	4.0	12.5	3.1	3.3	4.7	3.9	0.0	6.1	3.3	7.5	4.5
Pacific & Insular		12.8	24.5	13.4	10.9	10.8	21.1	14.8	19.7	10.5	20.0	9.3	13.2	13.5
Foreign		6.2	6.1	4.0	10.9	4.6	5.6	5.4	8.4	7.9	6.8	10.5	23.6	10.3
Region Unknown		0.2	2.0	0.0	1.6	0.0	1.1	0.6	0.5	0.0	0.3	0.0	0.0	0.1

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

[a] Physical sciences includes mathematics and computer sciences.

[b] Includes 2-year, 4-year, foreign colleges/universities, medical schools, and elementary/secondary schools.

APPENDIX TABLE A-3c. Statistical profile of doctorate recipients, by major field, 2000 (continued)

Total women

Psychology	Economics	Anthropology & Sociology	Political Sci./ International Rel.	Other Social Sciences	SOCIAL SCI. INCL. PSYCH.	TOTAL SCIENCES & ENGINEERING	History	American Literature	English Lang. & Lit.	Foreign Lang. & Lit.	Other Humanities	HUMANITIES	EDUCATION	Business & Management	Other Professional Fields	PROFESSIONAL/ OTHER FIELDS[a]	TOTAL NONSCIENCES
2,414	268	618	262	330	3,879	10,181	406	262	380	394	1,406	2,830	4,167	340	601	943	7,938
66.6	26.9	58.2	35.1	44.8	54.5	37.6	38.3	57.0	59.0	61.5	49.2	50.2	64.9	31.7	50.7	41.7	55.5
88.2	42.4	80.4	78.6	71.5	81.9	70.9	85.2	86.9	87.6	89.3	72.9	77.6	87.7	72.6	76.7	75.1	82.6
1.9	6.3	5.0	3.4	4.2	3.0	5.3	3.2	2.3	3.3	10.9	5.0	5.1	1.9	7.4	3.7	5.0	3.4
4.0	46.3	11.2	13.7	19.1	9.8	19.3	8.1	5.7	7.5	17.8	17.7	13.9	7.1	16.8	16.1	16.3	10.6
5.9	5.1	3.4	4.2	5.2	5.3	4.5	3.4	3.1	1.4	2.0	4.3	3.4	3.2	3.2	3.5	3.6	3.3
27.2	34.9	27.8	27.9	23.3	27.5	28.9	22.9	26.0	27.5	26.4	28.4	27.0	14.6	25.6	23.3	24.1	20.1
44.7	46.1	43.4	46.2	48.5	45.0	48.6	50.2	46.2	46.9	52.3	44.9	47.1	56.1	52.4	49.3	50.3	52.2
8.1	2.7	10.5	6.1	9.4	8.1	6.3	8.6	11.1	8.3	8.6	8.4	8.7	13.4	7.4	11.3	9.9	11.3
7.5	7.5	9.4	9.9	8.7	7.9	8.7	9.6	10.3	11.4	6.9	7.3	8.4	4.0	4.4	6.0	5.4	5.7
0.4	0.0	0.2	0.0	0.0	0.3	0.4	0.2	1.1	1.7	0.5	0.9	0.9	1.3	0.9	1.2	1.1	1.1
12.1	9.8	8.7	9.9	12.1	11.3	9.2	8.4	8.3	4.2	5.3	10.1	8.0	10.8	9.4	9.0	9.3	9.5
32.0	30.8	35.1	33.3	34.7	32.7	31.9	34.5	34.0	34.1	35.1	35.0	34.7	44.9	36.5	39.1	38.3	39.9
62.8	54.5	77.2	49.6	19.7	60.0	58.0	51.7	63.7	70.6	49.5	48.8	48.6	35.9	35.3	30.3	32.0	39.3
74.9	72.2	80.6	76.3	82.1	76.3	65.3	83.5	87.8	88.9	86.5	83.4	84.9	88.0	80.3	90.8	86.9	86.8
9.0	8.0	11.6	10.3	11.5	9.6	9.0	11.5	10.3	11.3	11.1	11.5	11.3	20.0	12.5	15.2	14.4	15.0
7.1	7.0	9.0	8.2	8.0	7.6	7.1	9.0	8.5	9.0	8.6	8.9	8.9	8.2	7.5	8.1	8.0	8.4
31.0	6.3	18.8	8.0	11.2	23.9	36.3	10.1	5.3	4.7	8.6	7.8	7.8	4.3	3.5	6.8	5.6	5.7
23.3	3.5	11.3	4.2	4.8	17.2	21.8	6.9	3.4	3.3	3.8	4.0	4.3	1.4	1.8	3.2	2.5	2.8
4.0	2.0	3.6	2.3	4.2	3.7	11.0	1.7	0.8	0.0	1.5	1.6	1.3	1.7	1.8	0.8	1.1	1.5
2.3	0.8	0.5	0.0	0.3	1.6	1.3	0.2	0.0	0.0	0.8	0.4	0.3	0.3	0.3	0.0	0.1	0.3
1.4	0.0	1.5	1.5	1.8	1.4	2.2	1.2	1.1	1.4	2.5	1.8	1.7	0.9	0.3	2.8	1.9	1.3
56.6	85.5	73.6	81.7	76.1	64.6	64.2	80.0	89.3	89.7	85.3	80.9	83.3	84.6	87.9	84.2	85.4	84.3
22.2	38.8	48.4	53.4	43.3	31.4	23.5	57.9	68.7	70.8	70.6	60.9	63.8	66.0	65.3	57.4	60.1	64.5
12.4	19.2	6.5	9.5	12.7	11.8	15.6	6.2	6.9	7.8	4.8	6.2	6.2	5.1	16.2	8.7	11.3	6.2
5.8	10.6	5.3	3.8	7.6	5.9	5.1	2.7	1.5	0.8	1.5	1.3	1.4	3.2	1.2	4.2	3.1	2.6
8.9	6.5	7.0	6.7	7.3	8.0	4.7	3.2	1.9	1.1	1.3	4.8	3.4	3.9	2.4	6.6	6.5	4.0
7.5	11.4	6.5	9.2	6.2	7.6	5.3	10.1	10.3	9.4	7.4	7.7	8.4	6.4	2.9	5.2	4.3	6.9
12.4	6.2	9.5	10.3	12.7	11.5	9.4	9.9	5.3	5.6	6.1	11.3	9.1	11.0	8.5	9.0	9.0	10.1
23.0	5.5	11.2	5.3	7.3	17.5	26.8	6.7	3.4	3.1	5.6	4.2	4.5	2.9	3.2	4.2	3.8	3.6
8.0	0.8	5.7	2.7	3.9	6.4	9.5	3.4	1.9	1.7	3.0	3.6	3.1	1.5	0.3	2.7	1.8	2.1
37.5	84.3	48.4	53.1	50.0	43.1	36.4	49.5	51.9	52.8	56.3	49.8	51.2	62.4	70.0	62.9	65.3	59.8
19.1	21.2	25.2	28.6	26.1	21.4	17.8	30.5	37.4	36.9	28.9	31.1	32.0	22.2	17.9	21.3	20.0	25.5
905	164	299	139	185	1,872	3,709	201	136	190	223	701	1,450	2,901	238	378	616	4,987
17.8	64.3	30.8	27.3	27.3	25.4	36.5	15.9	4.4	4.7	9.0	10.0	9.4	7.2	34.9	10.8	20.0	9.6
20.1	23.2	51.8	58.3	49.1	32.1	31.5	69.7	77.9	82.1	82.0	73.3	75.7	40.4	46.2	59.0	54.1	53.2
5.7	3.0	9.0	5.8	11.5	6.6	6.1	4.5	5.9	2.6	3.6	4.9	4.4	35.9	6.3	14.8	11.5	22.9
49.9	11.6	6.0	4.3	7.3	30.3	19.7	4.0	3.7	4.2	1.4	5.3	4.2	12.3	9.2	11.4	10.6	9.6
4.2	6.1	1.7	2.2	4.2	3.6	3.6	5.0	5.1	2.6	0.9	4.4	3.6	2.0	2.1	2.1	2.1	2.6
26.6	34.1	47.2	54.7	46.7	35.3	32.2	57.2	61.0	65.3	64.4	48.2	54.1	26.4	45.4	51.1	48.9	37.9
20.1	21.3	19.4	16.5	17.0	19.5	17.4	12.9	11.0	7.4	6.6	13.3	11.5	19.8	38.2	17.5	25.5	18.0
17.3	8.5	11.4	10.1	10.9	14.2	13.5	8.5	6.6	13.7	8.6	11.4	10.4	12.3	3.4	8.2	6.3	10.9
10.5	11.0	9.7	5.0	9.1	9.8	11.5	4.5	2.9	3.7	5.0	7.3	5.7	18.0	5.0	9.5	7.8	12.8
4.2	4.3	1.7	2.9	1.2	3.3	3.1	6.5	2.2	5.3	2.3	6.7	5.4	2.9	1.3	1.9	1.8	3.6
19.2	18.9	10.0	8.6	14.5	16.2	19.9	9.5	13.2	11.6	8.1	11.0	10.6	18.5	5.5	9.8	8.1	14.7
2.0	1.8	0.7	2.2	0.8	1.8	2.4	1.0	2.9	3.2	3.2	2.1	2.3	2.1	1.3	2.1	1.8	2.1
5.9	12.2	9.4	5.8	8.1	7.1	7.1	8.0	8.1	7.9	12.2	8.0	8.6	5.1	5.9	4.8	5.2	6.2
19.0	14.0	12.4	14.4	17.8	16.8	16.2	15.4	14.0	16.8	18.0	12.0	14.2	11.8	16.4	17.0	16.7	13.2
14.3	7.3	14.4	15.8	14.5	13.8	13.3	16.4	11.0	14.2	19.4	16.5	16.1	15.0	14.3	14.9	14.6	15.3
7.6	1.8	8.4	3.6	6.7	6.4	6.3	4.0	3.7	9.5	11.7	11.8	9.7	6.3	3.4	9.0	6.8	8.5
17.9	29.3	19.4	22.3	21.2	20.0	18.5	23.4	16.2	17.9	8.6	15.5	15.9	22.2	14.7	18.6	17.1	19.8
4.1	2.4	3.7	3.9	4.2	3.8	3.9	5.0	4.4	5.8	4.1	4.1	4.5	7.2	5.0	5.8	5.5	6.1
8.2	1.8	4.3	9.4	7.9	8.9	7.8	6.5	8.1	7.4	8.8	7.7	7.4	9.9	6.7	7.7	7.3	8.8
4.5	3.7	7.4	3.6	4.2	4.8	4.6	5.0	8.1	3.7	3.2	3.1	3.9	6.2	9.7	6.6	7.8	5.7
16.2	13.4	13.4	11.5	12.1	14.7	14.8	10.0	18.4	11.6	10.4	11.4	11.7	10.9	14.3	8.2	10.5	11.1
2.1	14.0	9.4	10.8	5.5	5.6	7.3	6.5	8.1	4.2	5.4	9.6	7.7	3.5	9.2	6.9	7.8	5.4
0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	1.1	0.5	0.1	0.3	0.1	0.4	0.5	0.5	0.2

[a] Includes only doctorate recipients with definite employment plans.
[b] Includes 2 respondents whose doctoral field was unknown.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE A-4. Statistical profile of doctorate recipients, by race/ethnicity and citizenship, 2000

Characteristics		Total[a]				American Indian[b]	Asian[c]				Black			
				Non-U.S.					Non-U.S.				Non-U.S.	
		Total	U.S.	Perm.	Temp.	Total	Total	U.S.	Perm.	Temp.	Total	U.S.	Perm.	Temp.
Total Number		41,368	27,888	1,949	9,646	169	8,110	1,407	908	5,770	2,123	1,656	119	335
Male	%	56.0	50.6	58.3	70.9	45.0	66.3	54.1	55.5	70.9	41.9	34.3	68.9	69.6
Female		43.8	49.4	41.6	29.1	55.0	33.7	45.9	44.5	29.1	58.1	65.7	31.1	30.4
Doctoral Field														
Physical Sciences[d]	%	14.7	11.7	18.4	22.4	10.1	20.2	14.2	19.7	21.7	6.4	5.2	12.6	10.4
Engineering		12.9	7.9	18.0	25.3	4.7	26.3	17.6	22.0	29.1	5.3	4.6	5.9	8.7
Life Sciences		20.6	19.6	25.8	22.7	15.4	25.8	28.6	31.3	24.3	15.3	11.7	23.5	30.4
Social Sciences		17.2	19.5	12.9	10.8	23.7	9.9	15.6	9.7	8.6	19.9	20.9	18.5	15.5
Humanities		13.6	16.9	12.9	7.7	12.4	6.2	10.0	6.6	5.2	9.8	9.7	10.9	9.9
Education		15.5	19.8	6.4	5.6	30.2	6.1	9.0	5.2	5.5	35.8	41.1	16.0	15.5
Professional/Other[e]		5.5	6.5	5.6	5.8	3.6	5.6	5.0	5.5	5.8	7.6	6.9	12.6	9.6
Median Age at Doctorate	Yrs	33.6	34.0	34.6	32.6	40.0	32.6	31.2	34.5	32.6	36.4	38.4	39.6	38.1
Median Time Lapse from Bacc. to Doct.														
Total Time	Yrs	10.3	10.6	11.0	9.8	12.0	10.0	8.5	12.1	10.0	13.3	13.5	12.5	13.0
Registered Time		7.4	7.5	7.9	7.1	8.0	7.3	7.1	8.4	7.3	7.7	7.8	8.1	7.4
Doctoral Program Support[f]														
Teaching Assistantships	%	17.4	16.3	19.8	20.0	10.6	17.9	14.3	19.9	18.5	11.0	7.8	16.2	24.9
Research Assistantships/Traineeships		24.9	18.9	33.6	40.7	10.6	43.6	31.3	40.2	47.2	11.5	8.7	18.9	22.6
Fellowships/Dissertation Grants		18.8	19.3	16.8	17.4	24.8	17.1	26.2	16.4	14.5	30.6	30.7	23.4	32.8
Own Resources		32.2	40.4	22.7	10.2	44.7	14.3	21.8	19.0	11.7	41.6	47.6	37.8	13.1
Foreign Government		2.7	0.1	2.8	10.4	1.2	5.4	0.5	1.9	7.1	0.9	0.1	1.8	4.9
Employer		3.6	4.6	2.1	1.0	0.2	1.5	3.5	2.2	0.8	3.9	4.6	1.8	1.3
Other		0.3	0.4	0.2	0.2	1.9	0.2	0.4	0.4	0.2	0.4	0.5	0.0	0.3
Postdoctoral Plans														
Postdoctoral study plans	%	25.1	23.2	29.9	34.3	18.3	36.5	34.0	32.9	36.3	19.5	18.5	26.1	32.2
Postdoctoral employment plans	%	65.2	71.6	63.9	59.5	74.6	59.2	60.6	61.9	58.6	72.7	75.1	69.7	59.7
Educational institution[g]		35.7	41.9	28.8	26.2	51.5	22.2	23.2	20.6	22.3	47.5	51.3	39.5	33.4
Industry/Business		17.1	14.8	26.1	25.0	7.1	29.0	24.9	32.7	29.5	9.9	9.4	16.0	10.4
Government		4.5	5.3	2.3	3.5	7.1	3.2	3.8	3.0	3.1	6.5	6.8	5.0	6.0
Nonprofit		3.5	4.4	2.3	1.6	3.0	2.1	4.1	2.4	1.5	4.0	4.2	2.5	3.6
Other/Unknown		4.5	5.3	4.4	3.1	5.9	2.7	4.5	3.2	2.2	4.9	4.5	6.7	6.3
Postdoctoral plans unknown	%	9.7	5.2	6.2	6.3	7.1	5.3	5.4	5.2	5.1	7.8	7.3	4.2	8.1
Definite Postdoctoral Study	%	18.4	18.0	18.0	23.2	14.2	23.9	26.2	19.6	24.1	12.3	11.6	10.1	17.0
Seeking Postdoctoral Study		6.8	5.1	11.9	11.1	4.1	11.6	7.9	13.3	12.2	7.2	5.0	16.0	15.2
Definite Employment		45.8	51.3	39.8	40.0	54.4	36.0	39.0	38.0	37.8	48.4	51.9	40.3	36.1
Seeking Employment		19.4	20.3	24.1	19.5	20.1	21.2	21.5	23.9	20.7	24.3	24.3	29.4	23.6
Employment Location after Doctorate[h]														
U.S.	%	90.4	98.2	90.6	61.5	94.6	77.0	96.4	94.2	69.4	92.6	99.4	89.6	45.5
Foreign		9.4	1.7	9.1	38.1	5.4	22.6	3.1	5.2	30.2	7.3	0.5	10.4	54.5
Unknown		0.2	0.2	0.3	0.5	0.0	0.4	0.5	0.8	0.4	0.1	0.1	0.0	0.0

APPENDIX TABLE A-4. Statistical profile of doctorate recipients, by race/ethnicity and citizenship, 2000 (continued)

White				Puerto Rican	Mexican American				Other Hispanic				Unknown Race			
		Non-U.S.					Non-U.S.				Non-U.S.				Non-U.S.	
Total	U.S.	Perm.	Temp.	Total	Total	U.S.	Perm.	Temp.	Total	U.S.	Perm.	Temp.	Total	U.S.	Perm.	Temp.
26,328	22,911	740	2,606	307	484	396	15	52	1,158	454	107	592	2,709	586	60	294
53.8	51.6	61.2	71.1	40.4	54.3	49.0	86.7	84.6	58.8	48.9	43.0	69.6	59.7	58.0	65.0	69.7
46.2	48.4	38.8	28.9	59.6	45.7	51.0	13.3	15.4	41.2	51.1	57.0	30.4	37.7	41.5	31.7	29.9
13.8	12.1	19.9	27.4	9.8	10.8	9.6	13.3	19.2	11.7	9.9	6.5	13.9	16.0	13.1	15.0	23.5
9.2	7.7	16.8	20.4	6.5	8.0	6.3	0.0	23.1	13.7	5.1	11.2	20.9	16.6	9.0	11.7	23.8
19.6	19.9	20.7	17.0	16.0	17.7	15.4	20.0	34.6	25.5	21.6	25.2	28.5	18.2	19.6	13.3	18.4
18.7	19.4	14.5	13.4	24.8	20.5	21.2	20.0	13.5	19.1	22.0	19.6	16.6	19.4	21.8	16.7	13.3
16.2	16.6	17.8	11.8	14.7	14.9	15.4	33.3	5.8	16.5	17.8	25.2	12.0	13.2	17.3	25.0	9.5
17.1	18.8	6.1	4.8	23.1	25.2	29.8	13.3	1.9	10.7	18.9	7.5	4.9	11.8	15.5	5.0	6.8
5.4	5.5	4.3	5.2	5.2	3.0	3.3	0.0	1.9	3.9	4.8	4.7	3.2	5.0	3.7	13.3	4.8
33.6	33.9	33.8	31.6	35.1	35.0	34.5	35.5	37.0	34.9	34.5	35.2	35.0	33.6	34.7	35.2	33.0
10.3	10.6	9.9	8.2	11.3	10.2	10.0	11.8	12.3	10.4	10.3	10.5	10.5	10.0	10.2	13.0	9.8
7.4	7.5	7.3	6.7	8.2	7.3	7.3	8.3	6.9	7.2	7.6	7.0	6.9	7.5	7.7	9.1	7.0
18.0	17.3	19.3	23.6	12.9	10.5	10.7	26.7	4.1	18.6	17.2	26.0	18.3	14.0	10.1	16.7	21.1
21.0	19.3	30.7	33.3	12.5	11.4	10.2	20.0	18.4	19.9	13.3	17.0	25.5	25.2	20.9	29.2	29.7
17.7	17.3	20.9	20.6	31.9	30.2	32.1	20.0	18.4	22.9	24.5	22.0	21.5	22.7	24.6	4.2	22.7
37.2	41.0	23.4	8.0	36.6	39.1	44.1	20.0	6.1	21.7	41.0	28.0	5.9	27.8	39.2	45.8	4.9
1.4	0.1	3.4	13.1	0.0	6.7	0.8	6.7	53.1	14.3	0.0	6.0	26.6	7.0	0.3	4.2	21.1
4.4	4.8	2.2	1.4	5.7	1.6	1.8	6.7	0.0	2.3	3.3	1.0	1.8	2.9	4.8	0.0	0.0
0.3	0.3	0.1	0.1	0.4	0.4	0.5	0.0	0.0	0.4	0.7	0.0	0.2	0.5	0.3	0.0	0.5
24.2	23.1	29.6	32.9	19.9	27.4	27.8	20.0	26.9	27.6	27.8	23.4	28.4	6.5	18.3	10.0	21.8
71.3	72.7	66.9	61.5	72.0	69.0	69.4	66.7	67.3	67.4	67.2	72.0	67.4	18.1	47.4	30.0	42.2
41.2	42.7	36.5	31.0	44.0	42.2	41.7	46.7	46.2	40.2	40.3	45.8	39.4	8.5	25.9	15.0	22.4
15.7	14.9	22.6	21.4	13.7	11.0	10.9	20.0	9.6	13.4	12.8	16.8	13.3	4.1	11.1	6.7	11.2
5.0	5.3	1.4	3.4	7.5	5.8	5.3	0.0	9.6	5.3	5.1	0.9	6.3	1.2	3.2	1.7	4.4
4.2	4.6	2.0	1.5	2.6	3.7	4.3	0.0	0.0	3.5	4.4	3.7	2.7	0.4	1.5	1.7	0.7
5.2	5.3	5.4	4.2	4.2	6.5	7.3	0.0	1.9	5.2	4.6	4.7	5.7	1.8	5.8	5.0	3.4
4.6	4.2	3.5	5.6	9.1	3.7	2.8	13.3	5.8	4.9	5.1	4.7	4.2	77.4	36.2	80.0	36.1
18.6	18.1	19.1	23.8	13.7	21.3	21.2	13.3	25.0	20.4	22.7	15.0	19.6	4.6	12.1	3.3	15.6
5.5	5.0	10.5	9.3	5.2	6.0	6.6	6.7	1.9	7.3	5.1	8.4	8.8	2.0	4.3	5.7	6.1
51.4	52.7	42.8	44.1	51.5	47.8	46.5	53.3	57.7	48.6	47.4	48.6	50.0	10.2	31.5	10.0	26.2
19.8	20.0	24.1	17.4	20.5	21.1	23.0	13.3	9.6	18.8	19.8	23.4	17.4	5.9	16.0	20.0	16.0
94.4	96.3	87.7	56.1	99.4	89.6	98.9	100.0	30.0	64.3	94.4	84.6	38.9	79.7	95.1	83.3	41.6
5.4	1.8	12.3	43.2	0.6	10.4	1.1	0.0	70.0	35.5	5.1	15.4	61.1	18.1	3.2	16.7	55.8
0.2	0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.0	0.0	2.2	1.6	0.0	2.6

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.
[c] Includes 74 individuals who did not report their gender and 1,883 individuals who did not report their citizenship at time of doctorate.
[d] Includes Alaskan Native.
[e] Includes Pacific Islander.
[f] Includes mathematics and computer sciences.
[g] Includes 6 persons for whom field was unknown.
[h] In this table, a recipient counts once in each source category from which he or she received support. Since students indicate multiple sources of support, the vertical percentages can sum to more than 100 percent. (Data on the "primary" source of support for doctorate recipients are presented in the Summary Report.)
[i] Includes 2-year, 4-year, foreign colleges/universities, medical schools, and elementary/secondary schools.
[j] Includes only recipients with definite employment plans.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE A-5. Doctorate recipients' financial resources in support of doctoral programs, by broad field and sex, 2000

Financial Resource		Total		Physical Sciences[a]		Engineering		Life Sciences		Social Sciences		Humanities		Education		Prof./Other Fields	
		Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women
Unduplicated Total[b]	N	21,217	16,570	4,226	1,355	4,085	763	4,207	3,736	2,929	3,472	2,589	2,628	2,027	3,750	1,174	866
Loans (from any source)	N	7,135	6,619	972	346	739	126	1,252	1,082	1,569	2,007	1,291	1,311	845	1,398	477	349
	V[c]	33.6%	39.9%	23.0%	25.5%	18.1%	16.5%	29.8%	29.0%	53.2%	57.8%	50.3%	49.9%	41.7%	37.3%	40.6%	40.3%
	H[d]	100.0%	100.0%	13.6%	5.2%	10.4%	1.9%	17.5%	16.3%	21.9%	30.3%	18.1%	19.8%	11.8%	21.1%	6.7%	5.3%
Foreign (non-U.S.) Support	N	2,284	958	392	86	597	65	406	225	341	171	270	242	118	109	160	80
	V	10.8%	5.8%	9.3%	6.3%	14.6%	8.5%	9.7%	6.0%	11.6%	4.9%	10.5%	9.2%	5.8%	2.9%	13.6%	6.9%
	H	100.0%	100.0%	17.2%	9.0%	26.1%	6.8%	17.8%	23.5%	14.9%	17.8%	11.8%	25.3%	5.2%	11.4%	7.0%	8.3%
Fellowship, Scholarship	N	11,461	9,160	2,176	784	1,846	459	2,506	2,292	1,853	2,073	1,862	1,854	613	1,221	616	477
	V	54.0%	55.3%	51.5%	57.9%	45.2%	60.2%	59.5%	61.3%	63.3%	59.7%	72.1%	70.5%	30.2%	32.6%	52.5%	55.1%
	H	100.0%	100.0%	19.0%	8.6%	16.1%	5.0%	21.9%	25.0%	16.2%	22.6%	16.2%	20.2%	5.3%	13.3%	5.4%	5.2%
Dissertation Grant	N	2,705	3,090	288	109	172	66	456	547	696	920	758	923	174	357	159	168
	V	12.7%	18.6%	6.8%	8.0%	4.2%	8.7%	10.8%	14.6%	23.8%	26.5%	29.5%	35.1%	8.6%	9.5%	13.5%	19.4%
	H	100.0%	100.0%	10.6%	3.5%	6.4%	2.1%	16.9%	17.7%	25.8%	29.8%	28.0%	29.9%	6.4%	11.6%	5.9%	5.4%
Teaching Assistant	N	12,607	9,131	3,314	1,082	2,002	399	1,843	1,649	2,146	2,348	2,058	2,136	500	992	744	527
	V	59.4%	55.1%	78.4%	79.9%	49.0%	52.3%	43.8%	44.1%	73.3%	67.6%	80.1%	81.3%	24.7%	26.5%	63.4%	60.9%
	H	100.0%	100.0%	26.3%	11.9%	15.9%	4.4%	14.6%	18.1%	17.0%	25.7%	16.3%	23.4%	4.0%	10.9%	5.9%	5.8%
Research Assistant	N	12,691	7,965	3,300	1,051	3,313	622	2,707	2,196	1,730	2,009	660	815	413	861	568	412
	V	59.8%	48.1%	78.1%	77.6%	81.1%	81.5%	64.3%	58.8%	59.1%	57.9%	25.7%	31.0%	20.4%	23.0%	48.4%	47.6%
	H	100.0%	100.0%	26.0%	13.2%	26.1%	7.8%	21.3%	27.6%	13.6%	25.2%	5.2%	10.2%	3.3%	10.8%	4.5%	5.2%
Traineeship	N	921	1,174	90	57	93	23	444	615	221	392	29	24	25	53	19	10
	V	4.3%	7.1%	2.1%	4.2%	2.3%	3.0%	10.6%	16.5%	7.5%	11.3%	1.1%	0.9%	1.2%	1.4%	1.6%	1.2%
	H	100.0%	100.0%	9.8%	4.9%	10.1%	2.0%	48.2%	52.4%	24.0%	33.4%	3.1%	2.0%	2.7%	4.5%	2.1%	0.9%
Internship or Residency	N	1,496	1,700	262	80	383	69	97	62	551	1,145	71	77	109	207	43	40
	V	7.1%	10.3%	6.2%	5.9%	9.9%	9.0%	2.3%	2.2%	18.8%	33.0%	2.8%	2.9%	5.4%	5.5%	3.7%	4.6%
	H	100.0%	100.0%	17.5%	4.7%	24.3%	4.1%	6.5%	4.8%	36.8%	67.4%	4.7%	4.5%	7.3%	12.2%	2.9%	2.4%
Personal Savings	N	10,942	9,459	1,668	561	1,757	323	1,902	1,856	1,818	2,062	1,577	1,520	1,432	2,572	788	566
	V	51.6%	57.1%	39.5%	41.4%	43.0%	42.3%	45.2%	49.7%	62.1%	59.4%	61.4%	57.8%	71.6%	68.6%	65.4%	65.2%
	H	100.0%	100.0%	15.2%	5.9%	16.1%	3.4%	17.4%	19.6%	16.6%	21.8%	14.4%	16.1%	13.3%	27.2%	7.0%	6.0%
Other Personal Earnings During Grad School	N	8,654	8,818	1,061	337	1,016	202	1,181	1,314	1,700	2,135	1,726	1,796	1,317	2,545	633	489
	V	40.8%	53.2%	25.6%	24.9%	24.9%	26.5%	28.1%	35.2%	58.0%	61.5%	67.2%	68.3%	65.0%	67.9%	53.9%	56.5%
	H	100.0%	100.0%	12.5%	3.8%	11.7%	2.3%	13.6%	14.9%	19.6%	24.2%	19.9%	20.4%	15.2%	28.9%	7.3%	5.5%
Family Earnings or Savings[e]	N	8,472	8,591	1,283	509	1,259	293	1,632	1,754	1,426	2,020	1,433	1,516	898	2,020	571	479
	V	39.9%	51.8%	29.9%	37.6%	30.8%	38.4%	38.8%	46.9%	48.7%	58.2%	55.8%	57.7%	43.8%	53.9%	48.6%	55.3%
	H	100.0%	100.0%	14.9%	5.9%	14.9%	3.4%	19.3%	20.4%	16.8%	23.5%	16.9%	17.6%	10.5%	23.5%	6.7%	5.6%
Employer Reimburse./ Assistance	N	2,428	2,174	318	80	449	54	311	420	289	312	194	178	651	980	214	143
	V	11.4%	13.1%	7.5%	5.9%	11.0%	7.1%	7.4%	11.2%	9.9%	9.0%	7.5%	6.7%	32.1%	26.1%	18.2%	16.5%
	H	100.0%	100.0%	13.1%	4.1%	18.5%	2.5%	12.8%	19.3%	11.9%	14.4%	8.0%	8.1%	26.8%	45.1%	8.8%	6.6%
Other	N	218	264	23	12	22	3	38	61	40	55	33	37	37	90	23	6
	V	1.0%	1.6%	0.5%	0.9%	0.5%	0.4%	0.9%	1.6%	1.4%	1.6%	1.3%	1.4%	1.8%	2.4%	2.0%	0.7%
	H	100.0%	100.0%	10.6%	4.5%	10.2%	1.1%	17.6%	23.1%	18.5%	20.8%	15.3%	14.0%	17.1%	34.1%	10.6%	2.3%

NOTE: In this table, a recipient counts once in each source category from which he or she received support. Since students indicate multiple sources of support, the vertical percentages can sum to more than 100 percent. (Data on the "primary" source of support for doctorate recipients are presented in the body of the Summary Report.) Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. The table excludes 74 individuals for whom gender was not reported.

[a] Includes mathematics and computer sciences.

[b] The 4,153 Ph.D.s who did not report sources of support are omitted from this total. Percentages are based only on known responses.

[c] V denotes vertical percentage; H denotes horizontal percentage.

[d] This category includes spouses and significant others.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

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APPENDIX TABLE A-6. State of doctoral institution of doctorate recipients, by broad field and sex, 2000

State	Total[a] Men	Total[a] Women	Physical Sciences[b] Men	Physical Sciences[b] Women	Engineering Men	Engineering Women	Life Sciences Men	Life Sciences Women	Social Sciences Men	Social Sciences Women	Humanities Men	Humanities Women	Education Men	Education Women	Prof./Other Fields[d] Men	Prof./Other Fields[d] Women
U.S. Total[c]	23,173	18,121	4,596	1,468	4,463	830	4,524	3,997	3,227	3,879	2,799	2,830	2,250	4,167	1,314	943
Alabama	294	222	52	12	55	11	79	67	26	37	16	12	45	69	21	14
Alaska	15	5	7	1	3	0	3	3	1	0	0	1	1	0	0	0
Arizona	438	300	94	32	81	13	72	57	54	49	50	50	53	80	34	19
Arkansas	75	54	10	6	7	0	31	16	3	7	9	3	12	18	3	4
California	2,859	2,040	590	156	603	122	448	411	457	574	295	352	174	344	92	81
Colorado	430	313	116	42	96	23	71	73	45	58	39	31	38	67	25	19
Connecticut	330	287	58	25	40	9	79	82	63	60	58	71	11	35	11	5
Delaware	113	71	28	6	34	2	9	4	15	16	15	15	11	28	1	1
Dist. of Columbia	265	270	31	8	36	6	31	57	60	96	61	45	20	42	25	16
Florida	936	949	139	48	145	22	122	92	105	171	60	87	265	483	100	66
Georgia	496	436	79	35	134	27	87	91	64	82	42	60	57	116	33	25
Hawaii	84	68	16	4	6	2	13	20	21	16	24	17	3	8	1	1
Idaho	64	34	16	1	4	0	24	6	5	4	0	2	15	21	0	0
Illinois	1,246	936	249	57	240	59	210	176	208	202	158	172	119	208	62	61
Indiana	706	483	155	35	132	17	119	96	86	89	118	107	64	99	33	20
Iowa	367	199	60	22	68	6	114	49	33	28	48	38	30	46	14	10
Kansas	218	197	48	18	25	3	40	45	39	43	31	31	31	49	4	8
Kentucky	186	166	24	9	29	4	49	45	25	40	23	16	19	46	17	6
Louisiana	350	259	64	21	47	13	85	62	48	49	45	38	29	62	32	14
Maine	33	16	15	2	5	1	6	7	3	2	1	0	3	4	0	0
Maryland	515	438	101	47	118	21	139	168	88	79	84	72	20	36	15	15
Massachusetts	1,223	868	277	89	254	59	214	230	180	187	151	135	65	118	82	60
Michigan	869	611	183	52	224	40	165	132	116	148	93	92	64	102	44	45
Minnesota	461	376	74	21	77	14	104	91	53	72	49	54	54	92	40	32
Mississippi	189	162	26	15	15	4	46	21	16	27	21	14	38	73	27	8
Missouri	427	294	67	16	75	10	96	58	60	76	64	43	49	77	14	14
Montana	37	28	8	2	2	0	14	10	3	3	0	0	10	13	0	0
Nebraska	155	141	24	6	7	1	52	37	29	25	15	21	19	36	10	15
Nevada	68	47	16	6	5	3	16	7	13	11	3	7	6	13	3	0
New Hampshire	41	46	17	14	2	2	13	17	3	5	3	3	3	5	0	0
New Jersey	513	370	128	42	104	29	84	61	63	73	81	76	23	42	30	27
New Mexico	151	119	30	9	34	4	25	13	16	20	16	23	20	43	10	7
New York	1,910	1,612	421	110	279	43	349	305	332	424	330	363	117	270	82	97
North Carolina	563	525	106	52	102	26	144	173	89	84	79	76	42	98	21	16
North Dakota	35	23	12	1	2	0	14	0	3	9	1	3	3	10	0	0
Ohio	1,007	786	181	61	225	38	193	184	115	152	115	111	119	207	59	45
Oklahoma	209	172	44	18	28	5	43	25	41	36	20	18	23	62	10	8
Oregon	220	161	58	21	24	5	67	60	20	21	23	18	18	31	10	7
Pennsylvania	1,137	962	192	78	255	61	198	202	152	194	129	163	122	214	89	80
Puerto Rico	37	92	8	3	0	0	2	10	13	47	2	1	12	31	0	0
Rhode Island	145	97	50	20	21	2	15	15	26	19	30	36	0	3	3	2
South Carolina	218	183	31	14	37	7	60	45	21	31	26	19	26	56	17	11
South Dakota	44	35	1	1	3	1	8	4	7	7	2	0	23	22	0	0
Tennessee	340	338	62	18	55	8	67	76	40	73	26	34	58	122	32	9
Texas	1,487	1,052	269	93	343	52	287	256	167	179	167	146	130	276	124	51
Utah	234	111	49	10	52	7	58	32	34	38	11	6	21	12	9	6
Vermont	33	32	7	1	3	0	9	7	3	9	5	3	6	12	0	0
Virginia	589	449	121	43	138	25	96	82	75	102	46	39	61	130	32	28
Washington	358	277	78	32	67	14	81	67	40	31	53	61	23	42	15	10
West Virginia	61	53	15	5	17	2	21	5	12	18	3	2	13	21	0	0
Wisconsin	521	348	99	30	102	15	133	100	48	54	78	66	34	61	27	22
Wyoming	43	29	10	9	3	1	15	5	9	2	0	0	6	12	0	0

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.
[a] Excludes 74 individuals for whom gender was not reported.
[b] Includes mathematics and computer sciences.
[c] Includes the 50 states, District of Columbia, and Puerto Rico.
[d] Includes 4 persons for whom field was unknown.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE A-7. Institutions granting research doctorates, by major field, 2000

State/Institution	2000 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sciences	Math & Computer Sciences	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Literature	English Lang. & Lit.	Other Humanities	Education	Professional/ Other Fields *
TOTAL ALL INSTITUTIONS	41,368	1,392	1,990	786	1,909	5,330	5,855	1,589	1,085	3,623	3,492	1,090	460	810	3,504	6,420	2,263
ALABAMA	518	21	19	3	21	67	80	42	24	45	18	11	4	7	6	118	35
Auburn University-Main Campus	186	3	11	0	10	26	15	9	24	29	8	9	2	3	1	32	4
United States Sports Academy	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8
Univ of Alabama-Birmingham	125	6	1	0	4	8	50	29	0	8	2	0	0	0	0	17	0
Univ of Alabama-Huntsville	29	9	0	1	3	16	0	0	0	0	0	0	0	0	0	0	0
Univ of Alabama	147	3	7	1	4	17	7	3	0	8	8	2	2	4	5	53	23
Univ of South Alabama	18	0	0	1	0	0	8	1	0	0	0	0	0	0	0	8	0
ALASKA	20	2	0	6	0	3	4	0	2	0	1	0	0	0	1	1	0
Univ of Alaska-Fairbanks	20	2	0	6	0	3	4	0	2	0	1	0	0	0	1	1	0
ARIZONA	738	40	26	33	27	94	82	26	21	40	63	17	16	10	57	133	53
Arizona State Univ-Main Campus	283	10	9	3	9	65	22	5	0	24	25	7	11	5	16	47	35
Northern Arizona Univ	52	0	0	0	0	0	5	0	3	0	3	4	0	0	2	35	0
Univ of Arizona	403	30	17	30	18	39	55	21	18	16	35	6	5	5	39	51	18
ARKANSAS	129	3	8	3	2	7	34	6	8	9	1	6	2	3	1	30	7
U of Arkansas-Fayetteville	86	3	8	0	2	7	6	4	8	9	1	6	2	3	1	19	7
U of Arkansas-Little Rock	14	0	0	3	0	0	0	0	0	0	0	0	0	0	0	11	0
U of Arkansas for Med Sci	29	0	0	0	0	0	28	1	0	0	0	0	0	0	0	0	0
CALIFORNIA	4,706	170	242	87	249	728	663	105	71	575	457	136	54	56	399	818	174
Azusa Pacific University	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Biola University	20	0	0	0	0	0	0	0	0	9	0	0	0	0	2	6	3
Calif Sch Prof Psych-Alameda	55	0	0	0	0	0	0	0	0	54	0	0	0	0	0	0	1
Calif Sch Prof Psych-Fresno	37	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0
Calif Sch Prof Psych-LA	41	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	1
Calif Sch Prof Psych-San Diego	62	0	0	0	0	0	0	0	0	62	0	0	0	0	0	0	0
California Inst of Integral Studies	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
California Inst of Technology	127	17	24	2	7	46	27	0	0	0	4	0	0	0	0	0	0
Claremont Graduate Univ	95	0	0	0	6	0	1	0	0	14	21	5	3	4	13	22	6
The Fielding Institute	121	0	0	0	0	0	0	1	0	68	3	0	0	0	0	32	17
Fuller Theological Seminary in California	56	0	0	0	0	0	0	0	0	30	1	0	0	0	11	0	14
Graduate Theological Union	21	0	0	0	0	0	0	0	0	0	1	0	0	0	17	0	3
La Sierra Univ	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Loma Linda Univ	39	0	0	0	0	0	19	10	0	9	0	0	0	0	0	1	0
Naval Postgraduate School	9	1	0	0	5	3	0	0	0	0	0	0	0	0	0	0	0
Pacific Grad School of Psychology	36	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0
Pepperdine Univ	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	0
Rand Grad Schl of Policy Studies	6	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0
Scripps Research Institute	15	0	8	0	0	0	7	0	0	0	0	0	0	0	0	0	0
San Diego State Univ	30	0	0	0	0	0	7	2	0	10	4	0	0	0	0	7	0
Claremont School of Theology	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3
Stanford University	567	28	23	16	35	161	75	3	0	18	89	14	4	7	40	27	27
United States Internatl Univ	10	0	0	0	0	0	0	0	0	7	0	0	0	0	0	1	2
Univ of California-Berkeley	781	31	51	13	51	139	63	31	17	26	102	36	10	8	84	38	29
Univ of California-Davis	356	10	26	9	14	64	113	4	40	7	21	11	6	2	18	11	0
Univ of California-Irvine	201	5	25	6	16	30	36	4	0	12	24	8	4	10	12	3	4
Univ of California-Los Angeles	604	26	21	7	46	75	100	23	1	26	59	29	6	8	69	62	24
Univ of California-Riverside	116	5	5	2	6	0	26	0	12	10	11	5	7	7	8	11	0
Univ of California-San Diego	278	23	18	18	19	44	65	0	0	9	42	7	5	0	21	2	5
Univ of California-San Francisco	61	0	8	0	0	2	51	17	0	0	3	0	0	0	0	0	0
Univ of California-Santa Barbara	230	10	11	2	16	56	16	0	0	20	30	11	1	7	27	22	1
Univ of California-Santa Cruz	90	9	4	8	8	4	14	0	1	6	17	3	4	1	10	0	1
Univ of Laverne	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	0
Univ of the Pacific	20	0	2	0	0	0	0	1	0	0	0	0	0	0	0	17	0
Univ of San Diego	13	0	0	0	0	0	0	3	0	0	0	0	0	0	0	10	0
Univ of San Francisco	78	0	0	0	0	0	0	0	0	6	0	0	0	0	0	71	0
Santa Clara Univ	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
Univ of Southern California	411	5	16	4	21	79	42	8	0	32	39	7	4	2	84	57	33
Wright Institute	26	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0
COLORADO	744	35	41	37	45	119	91	27	26	51	52	5	2	6	58	106	44
Colorado School of Mines	43	3	4	10	0	25	0	0	0	0	1	0	0	0	0	0	0
Colorado State Univ	180	4	13	9	10	25	42	6	25	14	9	1	0	0	0	18	6
Colorado Technical Univ	17	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	9
Univ of Colorado-Boulder	267	28	21	16	18	61	16	1	1	8	31	3	1	3	35	13	11
Univ of Colorado-Colorado Springs	5	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0
Univ of Colorado-Denver	25	0	0	1	5	1	0	1	0	0	1	0	0	0	0	10	6
Univ of Colorado-Health Sci Center	44	0	0	0	0	0	27	17	0	0	0	0	0	0	0	0	0
Univ of Denver	89	0	2	1	2	3	4	0	0	17	10	1	1	3	11	22	12
Univ of Northern Colorado	74	0	1	0	1	0	2	2	0	12	0	0	0	0	12	44	0
CONNECTICUT	618	22	29	9	24	49	130	24	7	51	72	31	3	15	90	48	16
Univ of Connecticut	276	8	12	3	12	37	45	14	5	39	20	11	0	3	11	45	11
Univ of New Haven	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Wesleyan Univ	14	1	3	0	0	0	8	0	0	0	1	0	0	0	1	0	0
Yale Univ	325	13	14	6	12	12	77	10	2	12	51	20	3	12	78	1	2

APPENDIX TABLE A-7. Institutions granting research doctorates, by major field, 2000 (continued)

State/Institution	2000 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sciences	Math & Computer Sciences	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Literature	English Lang. & Lit.	Other Humanities	Education	Professional/ Unknown Fields *
DELAWARE	184	4	10	11	8	36	10	1	2	9	22	8	1	7	14	30	2
Univ of Delaware	165	4	10	11	8	36	10	1	2	9	22	8	1	7	14	20	2
Wilmington College	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
DISTRICT OF COLUMBIA	537	10	15	2	12	42	73	16	0	64	93	26	6	4	70	82	42
American Univ	52	3	3	1	0	0	1	0	0	6	29	3	0	0	0	7	0
Catholic Univ of America	83	2	3	0	0	6	1	10	0	10	5	4	2	3	23	2	12
Gallaudet Univ	6	0	0	0	0	0	0	0	0	4	0	0	0	0	0	2	0
George Washington Univ	196	1	0	0	10	31	30	3	0	21	26	4	2	0	5	46	17
Georgetown Univ	109	0	2	0	0	0	33	0	0	4	16	12	0	0	39	0	3
Howard Univ	91	4	7	1	2	5	9	3	0	20	17	3	2	1	3	5	10
FLORIDA	1,889	31	50	30	76	168	112	56	46	196	78	18	16	16	77	749	168
Barry Univ	16	0	0	0	0	0	0	0	0	1	0	0	0	0	0	8	7
Florida A&M Univ	8	0	0	0	0	1	6	1	0	0	0	0	0	0	0	0	0
Florida Atlantic Univ-Boca Raton	42	1	0	0	0	11	0	0	0	5	1	0	0	0	0	19	5
Florida Inst of Technology-Melbourne	25	1	2	1	5	10	3	0	0	0	0	0	0	0	0	3	0
Florida International Univ	58	0	0	0	1	3	4	0	0	6	9	1	0	0	2	28	4
Florida State Univ	261	7	6	17	11	4	9	5	1	23	24	11	8	9	36	63	25
Nova Southeastern Univ	590	0	0	1	27	0	1	8	0	77	1	0	0	0	0	396	79
Univ of West Florida	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
Univ of Central Florida	66	9	0	0	7	27	0	0	0	4	0	0	0	0	0	19	0
Univ of Florida	394	11	28	2	18	77	50	28	44	27	30	5	3	8	14	31	21
Univ of Miami	144	2	7	7	1	17	26	7	1	37	8	1	1	0	15	13	1
Univ of Sarasota	137	0	0	0	1	0	0	1	0	3	0	0	0	0	0	112	20
Univ of South Florida	123	0	7	2	5	18	13	6	0	16	5	0	4	2	9	32	6
GEORGIA	936	15	57	10	32	164	125	24	29	88	59	16	16	13	57	173	58
Clark Atlanta Univ	38	0	3	0	0	0	4	0	0	0	7	1	0	0	2	16	5
Emory University	167	3	12	0	3	0	53	4	0	10	10	11	5	5	31	4	3
Georgia Inst of Technology-Main Campus	230	5	17	7	20	159	5	0	0	7	0	0	0	0	0	0	7
Georgia Southern Univ	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0
Georgia State Univ	125	3	3	0	3	0	5	9	0	21	15	2	2	4	3	32	19
Institute of Paper Sci & Tech	3	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0
Medical College of Georgia	13	0	0	0	0	0	10	3	0	0	0	0	0	0	0	0	0
Univ of Georgia	352	4	22	3	6	3	44	5	28	50	24	2	6	4	21	103	24
Valdosta State Univ	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
HAWAII	152	4	7	6	3	8	19	9	5	9	28	7	0	1	33	11	2
Univ of Hawaii at Manoa	152	4	7	6	3	8	19	9	5	9	28	7	0	1	33	11	2
IDAHO	99	3	9	1	4	5	13	1	16	3	6	2	0	0	0	36	0
Idaho State Univ	20	1	0	0	0	1	5	1	0	1	2	0	0	0	0	9	0
Univ of Idaho	79	2	9	1	4	4	8	0	16	2	4	2	0	0	0	27	0
ILLINOIS	2,181	75	80	17	134	299	274	73	39	201	209	66	11	31	222	327	123
Benedictine Univ	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Chicago Theological Seminary	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Depaul Univ	31	0	0	0	6	0	0	0	0	19	0	0	0	0	6	0	0
Finch U of Hlth Sci-Chicago Med Sch	23	1	0	0	0	0	10	1	0	10	0	0	0	0	0	1	0
Illinois Inst of Technology	78	4	2	0	19	37	6	0	0	8	0	0	0	0	0	0	2
Illinois State Univ	43	0	0	0	0	0	4	0	0	3	0	6	0	2	3	25	0
Inst for Clinical Social Work	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Loyola Univ of Chicago	163	0	1	0	0	0	20	1	0	25	6	1	2	5	10	86	6
Lutheran School of Theol-Chicago	9	0	0	0	0	0	0	0	0	0	0	1	0	0	6	0	2
National-Louis Univ	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
Northern Illinois Univ	104	0	3	1	2	0	5	0	0	10	6	1	2	3	1	69	1
Northwestern Univ	360	6	23	5	18	91	49	6	0	28	39	9	0	4	46	10	23
Roosevelt Univ	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
Rush Univ	22	2	0	0	0	0	11	9	0	0	0	0	0	0	0	0	0
Southern Ill Univ-Carbondale	119	1	0	1	3	5	12	7	2	17	12	3	0	3	11	20	22
Southern Ill Univ-Edwardsville	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Univ of Chicago	391	26	18	8	24	0	47	0	0	20	98	32	3	7	79	9	22
Univ of Illinois-Chicago	201	5	10	0	13	25	48	42	0	18	10	7	0	2	7	9	5
Univ of Illinois-Urbana	600	28	23	2	49	141	62	8	37	43	40	8	4	5	60	71	31
INDIANA	1,169	36	85	21	48	149	134	46	35	77	97	32	16	22	155	163	53
Ball State Univ	52	0	0	0	0	0	1	1	0	11	0	0	0	2	12	25	0
Indiana State Univ	53	0	0	2	0	0	3	1	0	7	5	0	0	0	0	35	0
Indiana Univ-Bloomington	440	8	24	11	22	0	52	13	1	21	50	22	9	5	101	73	27
Indiana Univ-Purdue Univ-Indianapolis	8	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
Purdue Univ-Main Campus	470	15	50	6	20	122	63	23	34	23	19	5	6	10	24	29	21
Univ of Notre Dame	148	13	11	2	6	27	15	0	0	15	23	6	1	4	18	1	5
IOWA	566	10	34	10	28	74	82	28	43	29	32	13	6	5	62	76	24
Drake Univ	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Iowa State Univ	238	3	22	7	15	47	36	3	43	12	14	3	0	0	2	27	4
Maharishi Univ of Management	6	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	1
Univ of Iowa	314	7	12	3	13	27	56	25	0	13	17	10	6	5	60	41	19
Univ of Northern Iowa	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0

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APPENDIX TABLE A-7. Institutions granting research doctorates, by major field, 2000 (continued)

State/Institution	2000 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sciences	Math & Computer Sciences	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Literature	English Lang. & Lit.	Other Humanities	Education	Professional/ Unknown Fields *
KANSAS	416	14	29	7	16	29	41	23	21	54	26	8	10	7	37	80	12
Emporia State Univ	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Kansas State Univ	132	7	7	1	10	9	16	3	21	10	11	2	0	0	0	31	4
Univ of Kansas	257	7	20	6	6	10	24	16	0	36	17	6	10	7	37	45	6
Wichita State Univ	26	0	2	0	0	10	1	4	0	6	0	0	0	0	0	3	0
KENTUCKY	352	3	15	2	13	33	63	17	14	31	34	11	4	1	23	65	23
Asbury Theological Seminary	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Southern Bapt Theol Seminary	13	0	0	0	0	0	0	0	0	0	0	2	0	0	6	1	4
Spalding Univ	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
Univ of Kentucky	249	3	10	2	13	21	48	16	14	26	27	9	4	0	14	27	17
Univ of Louisville	77	0	5	0	0	12	17	1	0	5	7	0	0	1	3	26	0
LOUISIANA	609	13	31	8	33	60	79	36	32	45	52	12	10	6	55	91	46
Grambling State Univ	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
Louisiana State Univ & A&M College	275	9	16	5	12	28	18	5	32	23	26	6	5	3	28	43	16
Louisiana State Univ-Health Sci Center	23	0	0	0	0	0	13	10	0	0	0	0	0	0	0	0	0
Louisiana State Univ-Shreveport	10	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0
Louisiana Tech Univ	23	0	0	0	1	9	0	0	0	1	1	0	0	0	0	6	5
New Orleans Bapt Theol Seminary	28	0	0	0	0	0	0	0	0	6	0	0	0	0	9	1	12
Univ of Louisiana-Monroe	12	0	0	0	0	0	2	6	0	1	0	0	0	0	0	3	0
Southern Univ and A&M College	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Tulane Univ of Louisiana	125	4	5	2	9	12	31	15	0	7	13	6	1	2	10	0	5
Univ of New Orleans	63	0	10	1	0	7	0	0	0	7	12	0	0	0	0	21	5
Univ of Louisiana-Lafayette	33	0	0	0	11	4	5	0	0	0	0	0	4	1	8	0	0
MAINE	49	5	6	4	2	6	9	0	4	3	2	1	0	0	0	7	0
Univ of Maine	49	5	6	4	2	6	9	0	4	3	2	1	0	0	0	7	0
MARYLAND	954	36	36	22	54	139	184	119	4	56	91	27	7	12	61	56	30
Johns Hopkins Univ	332	7	14	6	18	45	92	76	0	2	34	12	4	2	17	0	1
Loyola College	6	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	1
Morgan State Univ	10	0	0	0	0	0	0	0	0	0	1	1	0	0	0	8	0
Peabody Inst of Johns Hopkins Univ	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0
Uniformed Svcs. Univ of Hlth Sci	15	0	0	0	0	0	9	3	0	3	0	0	0	0	0	0	0
Univ of Maryland-Baltimore County	47	2	4	0	5	13	6	0	0	10	5	0	0	0	1	0	1
Univ of Maryland-College Park	460	27	15	15	31	61	39	10	4	36	51	14	3	10	54	48	22
Univ of Maryland-Eastern Shore	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Univ of Maryland-Baltimore	73	0	2	0	0	0	38	28	0	0	0	0	0	0	0	0	5
MASSACHUSETTS	2,104	118	110	38	101	318	347	84	17	96	272	66	17	21	181	163	132
American Internat College	5	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0
Boston College	114	1	8	0	0	0	9	9	0	16	12	10	1	2	13	23	10
Boston Univ	281	13	6	1	7	20	46	17	0	18	29	4	2	2	41	30	25
Brandeis Univ	106	5	8	0	5	0	29	1	0	4	23	11	5	4	13	0	0
Clark Univ	30	1	3	0	0	0	4	0	0	7	8	2	0	0	1	4	0
Harvard Univ	547	32	25	6	14	8	110	38	0	11	109	30	3	4	76	85	29
Mass Coll Pharm & Allied Health Sci	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mass Inst of Technology	460	41	16	29	44	196	36	0	0	1	43	4	0	0	13	0	36
New England Conserv of Music	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Northeastern Univ	66	4	7	0	8	20	12	1	0	1	9	2	1	1	0	0	2
Simmons College	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Smith College	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Springfield College	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Tufts Univ	98	3	9	0	2	12	45	0	0	4	8	2	3	1	3	0	6
Univ of Massachusetts-Amherst	276	10	22	0	14	37	29	10	17	22	29	3	2	7	19	43	13
Univ of Massachusetts-Boston	31	0	0	2	0	0	2	2	0	12	5	0	0	0	0	8	0
Univ of Massachusetts-Lowell	52	8	3	0	8	13	0	6	0	0	1	0	0	0	0	15	0
Univ of Massachusetts Med Sch-Worcester	21	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0
Worcester Polytechnic Inst	17	1	1	0	3	10	2	0	0	0	0	0	0	0	0	0	0
MICHIGAN	1,482	47	84	18	68	285	179	70	49	127	137	26	5	23	131	186	89
Andrews Univ	21	0	0	0	0	0	0	0	0	7	0	0	0	0	1	12	1
Calvin College	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
Central Michigan Univ	8	0	0	0	3	0	0	0	0	4	0	1	0	0	0	0	0
Eastern Michigan Univ	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
Michigan State Univ	429	13	26	2	15	36	62	9	42	25	41	9	0	4	31	69	45
Michigan Tech Univ	43	3	5	1	0	16	5	0	4	1	0	0	0	0	7	0	1
Oakland Univ	11	0	0	0	0	4	3	0	0	0	0	0	0	0	0	4	0
Univ of Detroit Mercy	18	0	1	0	0	3	0	0	0	12	0	0	0	0	0	0	0
Univ of Michigan	653	27	30	15	36	179	68	48	3	36	60	15	2	14	71	19	28
Wayne State Univ	232	3	22	0	8	28	39	13	0	25	25	1	2	2	15	40	8
Western Michigan Univ	64	1	0	0	2	1	2	0	0	17	8	0	1	3	2	11	6
MINNESOTA	830	24	37	3	32	92	84	63	48	69	96	20	7	11	66	146	72
Hamline Univ	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Luther Seminary	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mayo Graduate School	19	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0
Univ of Minnesota-Twin Cities	684	24	37	3	32	91	65	55	48	37	82	20	7	11	66	99	37
Univ of St Thomas	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0
Walden University	99	0	0	0	0	1	0	8	0	32	4	0	0	0	0	26	28

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APPENDIX TABLE A-7. Institutions granting research doctorates, by major field, 2000 (continued)

State/Institution	2000 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sciences	Math & Computer Sciences	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Literature	English Lang. & Lit.	Other Humanities	Education	Professional/ Unknown Fields *
MISSISSIPPI	351	1	22	4	14	19	31	4	32	36	7	9	8	4	14	111	35
Delta State Univ	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Jackson State Univ	16	0	0	3	0	0	0	0	0	0	0	0	0	0	0	12	1
Mississippi State Univ	129	0	4	0	8	13	16	0	32	3	3	2	0	0	0	40	7
Reformed Theological Seminary	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3
Univ of Mississippi-Main Campus	80	1	5	0	1	3	0	1	0	11	4	3	5	3	2	24	17
Univ of Mississippi-Med Ctr	12	0	0	0	0	0	11	1	0	0	0	0	0	0	0	0	0
Univ of Southern Mississippi	108	0	13	1	5	3	4	2	0	22	0	4	3	1	10	33	7
MISSOURI	722	21	31	10	22	85	121	15	20	86	50	14	4	13	76	126	28
Concordia Seminary	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
St. Louis Univ-Main Campus	117	1	0	3	1	0	13	7	0	25	3	2	1	2	16	36	5
Univ of Missouri-Columbia	258	3	6	1	11	33	29	3	20	29	20	5	2	5	15	61	15
Univ of Missouri-Kansas City	63	3	3	0	2	1	5	0	0	6	2	2	0	0	18	21	0
Univ of Missouri-Rolla	45	6	7	4	1	25	2	0	0	0	0	0	0	0	0	0	0
Univ of Missouri-St Louis	37	0	7	0	0	0	5	4	0	11	4	0	0	0	0	6	0
Washington Univ	200	8	8	2	7	26	67	1	0	15	21	5	1	6	26	0	7
MONTANA	65	2	7	0	1	2	17	0	7	4	2	0	0	0	0	23	0
Montana State Univ	32	2	3	0	1	2	7	0	3	0	2	0	0	0	0	12	0
Univ of Montana	33	0	4	0	0	0	10	0	4	4	0	0	0	0	0	11	0
NEBRASKA	297	3	11	4	12	8	46	9	34	26	28	2	10	7	17	55	25
Creighton Univ	5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
Univ of Nebraska-Lincoln	251	3	10	4	12	8	15	3	34	26	24	2	10	7	17	54	22
Univ of Nebraska-Med Center	33	0	1	0	0	0	26	6	0	0	0	0	0	0	0	0	0
Univ of Nebraska-Omaha	8	0	0	0	0	0	0	0	0	0	4	0	0	0	0	1	3
NEVADA	115	4	9	11	0	8	21	4	0	15	9	0	8	0	4	21	3
Univ of Nevada-Las Vegas	31	0	0	0	0	4	2	0	0	0	6	0	0	0	1	15	3
Univ of Nevada-Reno	84	4	9	11	0	4	19	4	0	15	3	0	8	0	3	6	0
NEW HAMPSHIRE	87	5	9	6	11	4	28	1	1	5	3	2	1	2	1	8	0
Dartmouth College	38	3	5	3	5	3	16	1	0	2	0	0	0	0	0	0	0
Univ of New Hampshire-Main Campus	49	2	4	3	6	1	12	0	1	3	3	2	1	2	1	8	0
NEW JERSEY	883	44	44	13	69	133	132	16	17	38	98	40	7	20	90	65	57
Drew Univ	25	0	0	0	0	0	0	0	0	1	2	5	1	3	9	1	3
Fairleigh Dickinson Univ-All Campuses	10	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0
New Jersey Inst of Technology	45	2	2	1	12	28	0	0	0	0	0	0	0	0	0	0	0
Princeton Theol Seminary	20	0	0	0	0	0	0	0	0	0	0	1	0	0	11	0	8
Princeton University	281	26	15	5	16	47	41	0	0	6	51	22	2	10	37	1	2
Rutgers Univ-New Brunswick	341	13	17	7	28	47	52	8	17	13	35	12	4	7	32	29	20
Rutgers Univ-Newark	57	1	3	0	5	0	9	3	0	1	10	0	0	0	1	1	23
Seton Hall Univ	49	0	5	0	0	0	0	5	0	6	0	0	0	0	0	33	0
Stevens Inst of Technology	25	2	2	0	8	11	0	0	0	1	0	0	0	0	0	0	1
Univ of Med & Dent of NJ	30	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0
NEW MEXICO	272	20	8	5	7	39	19	3	16	19	17	9	5	4	21	63	17
New Mexico Inst of Mining & Tech	11	2	0	2	0	7	0	0	0	0	0	0	0	0	0	0	0
New Mexico State Univ-Main Campus	78	12	4	0	2	14	2	0	16	7	0	0	0	1	2	12	6
Univ of New Mexico-Main Campus	183	6	4	3	5	18	17	3	0	12	17	8	5	3	19	51	11
NEW YORK	3,528	158	145	60	171	324	531	70	53	362	396	110	49	83	451	367	179
Adelphi Univ	40	0	0	0	2	0	0	1	0	34	0	0	0	0	0	0	3
Albany Medical College	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
Alfred Univ	14	0	0	0	0	5	0	0	0	6	0	0	0	0	0	3	0
CUNY Grad School & Univ Center	268	14	8	4	18	12	29	8	0	39	29	10	7	12	59	8	13
Clarkson Univ	19	0	3	0	0	16	0	0	0	0	0	0	0	0	0	0	0
Columbia Univ	457	24	27	16	20	32	57	19	0	29	68	35	4	14	61	15	35
Columbia Univ-Teachers College	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124	0
Cornell Univ	449	31	19	9	21	78	75	8	45	7	56	15	3	5	54	7	16
Cornell Univ Medical Campus	30	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0
Fordham University	95	0	0	0	0	0	1	0	0	22	15	3	0	6	12	31	5
Hofstra Univ	44	0	0	0	0	0	0	0	0	33	0	0	0	0	0	11	0
Jewish Theol Sem of America	6	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	2
The Juilliard School	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0
Long Island Univ-Brooklyn Campus	16	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0
Mount Sinai School of Medicine	27	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0
New School University	52	0	0	0	0	0	0	0	0	18	30	0	0	0	4	0	0
New York Medical College	14	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0
New York Univ	390	3	9	1	35	2	50	11	0	27	41	18	13	13	91	42	36
Pace Univ-New York	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4
Polytechnic Univ	34	0	2	0	7	25	0	0	0	0	0	0	0	0	0	0	0
Rensselaer Polytechnic Inst	92	7	7	2	2	57	3	0	0	1	4	1	0	0	0	0	8
Rochester Institute of Technology	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockefeller Univ	19	1	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0
St Johns Univ-Queens	50	0	2	0	0	0	7	0	0	19	1	2	0	2	0	17	0
SUNY-Albany	159	15	1	8	11	1	9	2	0	31	27	2	1	3	9	30	9
SUNY-Binghamton	100	0	5	2	8	4	5	0	0	9	22	6	6	6	22	4	1

APPENDIX TABLE A-7. Institutions granting research doctorates, by major field, 2000 (continued)

State/institution	2000 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sciences	Math & Computer Sciences	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Literature	English Lang. & Lit.	Other Humanities	Education	Professional/ Unknown Fields *
NEW YORK (continued)																	
SUNY-Buffalo	302	8	16	0	8	35	50	14	0	23	22	4	11	8	37	53	13
SUNY-Stony Brook	241	19	23	10	14	21	49	0	0	22	22	8	4	9	37	3	0
SUNY Coll-Environ Sci & Forestry	17	0	3	3	0	1	3	0	7	0	0	0	0	0	0	0	0
SUNY-Hlth Sci Ctr-Brooklyn	13	0	0	0	0	0	12	1	0	0	0	0	0	0	0	0	0
SUNY-Hlth Sci Ctr-Syracuse	12	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0
Syracuse Univ	142	6	7	1	14	13	1	0	0	11	34	3	0	0	10	27	15
Union College	2	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Union Theol Seminary	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Univ of Rochester	211	27	13	3	10	20	37	6	1	4	22	5	0	5	43	11	4
Yeshiva Univ	60	0	0	1	0	1	39	0	0	11	0	0	0	0	0	3	5
NORTH CAROLINA	1,109	28	55	26	49	128	217	66	34	52	121	36	18	18	85	141	37
Appalachian State Univ	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Duke Univ	230	8	11	1	10	34	59	1	1	9	37	12	6	3	31	1	6
East Carolina Univ	10	0	0	0	0	0	7	0	0	0	0	0	0	0	0	3	0
Fayetteville State Univ	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
North Carolina A & T St Univ	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
North Carolina St U-Raleigh	314	10	15	11	22	79	58	2	33	7	27	1	0	0	0	48	1
Southeastern Baptist Theological Seminary	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
U of N Carolina-Chapel Hill	424	6	23	14	17	11	72	61	0	21	87	23	9	14	31	35	30
U of N Carolina-Charlotte	4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0
U of N Carolina-Greensboro	88	0	0	0	0	0	4	2	0	15	0	0	1	1	17	48	0
Wake Forest University	28	4	6	0	0	1	17	0	0	0	0	0	0	0	0	0	0
NORTH DAKOTA	58	4	6	0	3	2	8	0	6	12	0	1	0	1	2	13	0
North Dakota State Univ-Main Campus	19	1	3	0	3	2	4	0	6	0	0	0	0	0	0	0	0
Univ of North Dakota-Main Campus	39	3	3	0	0	0	4	0	0	12	0	1	0	1	2	13	0
OHIO	1,795	65	100	19	48	265	248	101	28	174	93	53	21	28	124	326	102
Air Force Inst of Tech	10	1	0	0	2	7	0	0	0	0	0	0	0	0	0	0	0
Bowling Green State Univ-Main Campus	93	1	2	1	5	0	3	1	0	22	4	2	1	3	23	18	7
Case Western Reserve Univ	193	6	10	1	3	46	54	19	1	8	5	6	3	4	7	1	19
Cleveland State Univ	39	0	6	0	1	9	4	0	0	0	0	0	0	0	0	12	8
Hebrew Union College-Jewish Inst of Religion	5	0	0	0	0	0	0	0	0	0	0	1	0	0	3	0	1
Kent State Univ-Main Campus	131	9	2	3	3	0	12	1	0	29	8	5	2	3	2	37	15
Medical College of Ohio	24	0	0	0	0	0	22	2	0	0	0	0	0	0	0	0	0
Miami Univ-Oxford	50	0	8	0	0	0	11	0	0	7	3	5	3	3	2	8	0
Ohio State Univ-Main Campus	609	21	24	13	25	79	82	38	27	39	52	21	5	7	40	105	31
Ohio Univ-Main Campus	120	5	2	0	2	14	5	1	0	16	1	6	2	2	5	44	15
Univ of Akron-Main Campus	114	8	26	0	0	30	3	0	0	17	7	2	0	0	0	21	0
Univ of Cincinnati-Main Campus	240	7	16	1	3	50	39	11	0	10	13	1	1	1	40	41	6
Univ of Dayton	31	4	0	0	0	19	0	0	0	0	0	0	0	0	0	8	0
Univ of Toledo	108	3	6	0	4	9	9	28	0	10	0	4	4	5	2	25	0
Wright State Univ-Main Campus	22	0	0	0	0	2	4	0	0	16	0	0	0	0	0	0	0
Youngstown State Univ	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
OKLAHOMA	382	11	15	24	13	33	42	7	19	50	27	4	7	9	18	85	18
Oklahoma State Univ-Main Campus	186	4	8	10	4	14	19	2	19	20	11	1	2	3	1	60	8
Univ of Oklahoma-Norman Campus	170	7	7	12	8	13	23	5	0	17	16	3	3	4	17	25	10
Univ of Tulsa	26	0	0	2	1	6	0	0	0	13	0	0	2	2	0	0	0
OREGON	382	17	19	22	21	29	75	23	30	17	24	1	4	7	27	49	17
Oregon Grad Inst of Sci & Tech	17	0	1	0	1	14	1	0	0	0	0	0	0	0	0	0	0
Oregon Health Sciences Univ	37	0	0	0	0	0	30	7	0	0	0	0	0	0	0	0	0
Oregon State Univ	159	7	9	15	11	12	28	16	30	3	5	0	0	0	1	20	2
Portland State Univ	31	1	1	1	1	3	3	0	0	3	4	0	0	0	0	6	6
Univ of Oregon	138	9	8	6	8	0	13	0	0	11	15	1	4	7	26	21	9
PENNSYLVANIA	2,101	55	88	24	103	316	265	116	19	198	149	41	32	31	188	336	140
Bryn Mawr College	21	0	0	0	0	0	0	0	0	9	0	0	0	1	8	0	3
Carnegie Mellon Univ	158	3	10	1	22	82	9	0	0	8	3	5	0	0	4	0	11
Drexel Univ	35	0	1	1	2	17	3	0	0	3	0	0	0	0	0	0	8
Duquesne Univ	48	0	4	0	1	0	0	1	0	24	0	0	1	2	13	0	2
Indiana Univ of Pennsylvania	77	0	0	0	0	0	0	0	0	11	5	0	9	9	17	26	0
Lehigh Univ	100	7	3	3	7	43	6	0	0	10	2	0	1	2	1	13	2
Marywood Univ	4	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0
MCP Hahnemann University	29	0	0	0	0	0	11	0	0	18	0	0	0	0	0	0	0
Pennsylvania State Univ-Main Campus	541	20	11	11	23	110	71	25	19	35	38	8	5	7	32	97	29
Univ of the Sciences in Philadelphia	7	0	4	0	0	0	2	1	0	0	0	0	0	0	0	0	0
Temple Univ	270	3	8	0	7	1	26	16	0	40	15	14	5	2	35	78	20
Thomas Jefferson Univ	16	0	1	0	0	0	15	0	0	0	0	0	0	0	0	0	0
Univ of Pennsylvania	425	11	28	4	14	35	84	22	0	19	60	11	10	7	48	37	39
Univ of Pittsburgh-Main Campus	317	11	16	4	27	30	37	40	0	16	26	3	1	1	25	54	24
Villanova Univ	3	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Westminster Theol Seminary	9	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	2
Widener Univ-Main Campus	41	0	0	0	0	0	0	11	0	0	0	0	0	0	0	30	0
PUERTO RICO	130	0	7	4	0	0	12	0	0	60	1	2	0	0	1	43	0
Carlos Albizu University-San Juan Campus	43	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0
Inter Amer U PR-Metro	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0

APPENDIX TABLE A-7. Institutions granting research doctorates, by major field, 2000 (continued)

State/Institution	2000 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sciences	Math & Computer Sciences	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Literature	English Lang. & Lit.	Other Humanities	Education	Professional/ Unknown Fields *
PUERTO RICO (continued)																	
Univ of Puerto Rico-Mayaguez	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
Univ of Puerto Rico-Med Science Campus	8	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0
Univ of Puerto Rico-Rio Piedras	52	0	7	0	0	0	4	0	0	17	1	2	0	0	1	20	0
RHODE ISLAND	242	14	18	18	20	23	22	7	1	17	28	9	5	10	42	3	5
Brown Univ	149	8	11	6	15	11	17	0	0	3	24	6	2	8	34	0	2
Providence College	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Salve Regina Univ	6	0	0	0	0	0	0	0	0	0	1	0	0	0	5	0	0
Univ of Rhode Island	86	6	7	12	5	12	5	7	1	14	3	0	3	2	3	3	3
SOUTH CAROLINA	401	9	13	9	14	44	58	34	13	24	28	6	6	7	26	82	28
Clemson University	109	4	7	1	4	31	17	0	13	2	5	0	0	0	0	16	9
Medical Univ of South Carolina	27	0	3	0	0	0	20	3	0	0	0	0	0	0	0	1	0
South Carolina State Univ	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0
Univ of South Carolina	243	5	3	8	10	13	21	31	0	22	23	6	6	7	26	43	19
SOUTH DAKOTA	79	0	1	1	0	4	10	0	2	8	6	0	0	2	0	45	0
S Dakota Sch of Mines & Tech	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
South Dakota State Univ	14	0	1	1	0	0	4	0	2	0	6	0	0	0	0	0	0
Univ of South Dakota	61	0	0	0	0	0	6	0	0	8	0	0	0	2	0	45	0
TENNESSEE	681	17	33	4	25	64	112	24	7	73	40	2	7	12	39	180	42
East Tennessee State Univ	28	0	0	0	0	0	3	0	0	0	0	0	0	0	0	24	1
Meharry Medical College	13	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0
Mid-America Baptist Sem	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Middle Tennessee State Univ	7	0	2	0	0	0	0	0	0	0	0	1	1	1	0	2	0
Tennessee State Univ	31	0	0	0	0	0	0	0	0	2	0	0	0	0	0	29	0
Tennessee Technological Univ	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
Univ of Memphis	109	0	5	1	7	11	3	3	0	27	0	0	0	0	7	34	11
Univ of Tennessee-Knoxville	256	10	20	2	10	30	29	15	7	30	26	1	3	4	5	53	21
Univ of Tennessee-Memphis	29	0	2	1	0	0	22	4	0	0	0	0	0	0	0	0	0
Vanderbilt Univ	190	7	4	0	8	19	42	2	0	14	14	0	3	7	27	38	5
TEXAS	2,545	73	113	56	120	397	391	93	60	190	157	57	24	32	200	406	176
Baylor College of Medicine	54	0	0	0	0	0	53	1	0	0	0	0	0	0	0	0	0
Baylor Univ	46	0	2	1	2	0	3	0	0	0	1	0	2	1	11	23	0
Dallas Theological Seminary	11	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	7
Lamar Univ-Beaumont	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Rice Univ	111	6	11	5	17	30	12	0	0	5	8	4	1	4	8	0	0
St. Mary's Univ	3	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0
Sam Houston State Univ	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
Southern Methodist Univ	37	1	0	2	8	8	0	0	0	5	7	1	0	0	5	0	0
Southwestern Baptist Theol Sem	54	0	0	0	0	0	0	0	0	4	0	1	0	0	20	0	29
Southwest Texas State Univ	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
Stephen F Austin St Univ	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Texas A&M Univ-College Station	507	10	28	18	29	135	72	8	44	21	28	6	4	3	5	69	27
Texas A&M Univ-Commerce	45	0	0	0	0	0	0	0	0	4	0	0	0	0	1	39	1
Texas A&M Univ-Kingsville	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0
Texas Christian Univ	20	1	1	0	0	0	0	0	0	6	0	8	2	0	2	0	0
Texas Southern Univ	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0
Texas Tech Univ	141	1	3	2	1	18	13	0	12	21	6	4	4	2	13	24	17
Texas Tech Univ Health Sci Ctr	4	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
Texas Woman's Univ	92	0	0	0	0	0	6	38	1	13	5	0	0	0	6	19	4
Univ of Dallas	5	0	0	0	0	0	0	0	0	0	4	0	0	1	0	0	0
Univ of Houston	175	6	19	0	3	31	13	1	0	20	15	4	3	3	7	43	7
Univ of North Texas	160	6	5	1	20	0	6	0	0	22	10	6	4	8	17	44	11
Univ of North Texas-Hlth Sci Ctr	6	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0
Univ of Texas-Arlington	78	2	8	0	7	25	3	0	0	0	4	2	1	1	12	1	12
Univ of Texas-Austin	656	29	31	20	27	131	38	16	1	45	56	20	2	9	82	103	46
Univ of Texas-Dallas	71	7	5	3	4	9	9	0	0	12	7	1	1	0	5	0	8
Univ of Texas-El Paso	20	0	0	3	1	9	0	0	0	2	0	0	0	0	0	5	0
Univ of Texas-Pan American	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Univ of Texas -Hlth Sci Ctr-Houston	87	1	0	1	1	1	59	22	0	1	1	0	0	0	0	0	0
Univ of Texas -Hlth Sci Ctr-San Antonio	24	3	0	0	0	0	18	3	0	0	0	0	0	0	0	0	0
Univ of Texas -Med Branch-Galveston	34	0	0	0	0	0	30	2	0	0	0	0	0	0	2	0	0
Univ of Texas-Southwestern Med Ctr	55	0	0	0	0	0	48	0	0	7	0	0	0	0	0	0	0
UTAH	348	9	31	3	18	59	66	14	10	46	27	5	3	0	9	33	15
Brigham Young Univ	71	2	6	0	4	8	4	3	0	24	8	3	0	0	1	7	1
Univ of Utah	206	6	22	2	13	43	41	11	0	12	15	2	3	0	8	16	12
Utah State Univ	71	1	3	1	1	8	21	0	10	10	4	0	0	0	0	10	2
VERMONT	65	0	6	0	2	3	16	0	0	12	0	0	0	0	6	18	0
Middlebury College	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0
Univ of Vermont	58	0	6	0	2	3	16	0	0	12	0	0	0	0	1	18	0
VIRGINIA	1,039	29	39	28	68	164	122	31	25	86	91	25	5	14	41	211	60
College of William & Mary	59	9	1	9	7	2	3	0	1	0	0	6	0	0	3	18	0
George Mason Univ	133	1	0	3	25	9	4	9	0	17	24	0	1	0	0	36	4
Hampton University	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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APPENDIX TABLE A-7. Institutions granting research doctorates, by major field, 2000 (continued)

State/Institution	2000 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sciences	Math & Computer Sciences	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Literature	English Lang. & Lit.	Other Humanities	Education	Professional/ Unknown Fields *
VIRGINIA (continued)																	
Norfolk State Univ	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Old Dominion Univ	62	4	0	7	4	14	8	1	0	2	4	0	0	0	0	12	6
Regent Univ	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6
Union Theol Seminary in Virginia	10	0	0	0	0	0	0	0	0	0	0	1	0	0	3	1	5
Univ of Virginia-Main Campus	341	8	13	5	16	51	44	6	0	25	37	17	4	14	30	68	3
Virginia Commonwealth Univ and Med Coll	112	0	10	0	0	2	37	12	0	22	12	0	0	0	3	5	9
Virginia Polytech Inst & St Univ	308	2	15	4	16	86	26	3	24	20	13	1	0	0	1	71	26
WASHINGTON	634	20	37	26	25	83	114	36	18	18	53	22	11	12	69	66	25
Gonzaga Univ	11	0	0	0	0	0	0	3	0	1	1	0	0	0	0	6	0
Seattle Pacific Univ	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
Seattle Univ	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
Univ of Washington	486	16	34	24	20	68	66	32	11	13	45	17	10	6	62	23	19
Washington State Univ	118	4	3	2	5	15	28	1	7	4	7	5	1	6	7	17	6
WEST VIRGINIA	134	7	7	2	4	19	13	1	12	22	8	1	0	0	4	34	0
Marshall University	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
West Virginia Univ	132	7	7	2	4	19	11	1	12	22	8	1	0	0	4	34	0
WISCONSIN	869	32	46	14	37	117	163	19	51	37	65	40	16	17	71	85	49
Marquette Univ	54	0	4	0	1	7	4	0	0	4	0	2	3	2	15	8	4
Medical College of Wisconsin	10	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0
Univ of Wisconsin-Madison	726	27	36	14	31	104	143	17	51	27	58	38	5	11	52	72	42
Univ of Wisconsin-Milwaukee	77	5	6	0	5	6	6	2	0	6	7	0	8	4	4	15	3
WYOMING	72	2	10	5	2	4	13	0	7	6	5	0	0	0	0	18	0
Univ of Wyoming	72	2	10	5	2	4	13	0	7	6	5	0	0	0	0	18	0

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.
* Includes 5 persons for whom field was unknown.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE A-8. Top 50 doctorate-granting institutions, 2000

Rank	Institution	Number	Rank	Institution	Number
1.	University of California-Berkeley	751	26.	University of Florida	394
2.	University of Wisconsin-Madison	728	27.	University of Chicago	391
3.	University of Minnesota-Twin Cities	684	28.	New York University	390
4.	The University of Texas at Austin	656	29.	Northwestern University	360
5.	University of Michigan-Ann Arbor	653	30.	University of California-Davis	356
6.	Ohio State University-Main Campus	609	31.	University of Georgia	352
7.	University of California-Los Angeles	604	32.	Rutgers University-New Brunswick	341
8.	University of Illinois at Urbana	600	32.	University of Virginia-Main Campus	341
9.	Nova Southeastern University	590	34.	Johns Hopkins University	332
10.	Stanford University	567	35.	Yale University	325
11.	Harvard University	547	36.	University of Pittsburgh-Main Campus	317
12.	Pennsylvania State University-Main Campus	541	37.	University of Iowa	314
13.	Texas A & M University	507	37.	North Carolina State University at Raleigh	314
14.	University of Washington	488	39.	Virginia Polytechnic Institute & State University	308
15.	Purdue University-Main Campus	470	40.	SUNY at Buffalo	302
16.	University of Maryland-College Park	460	41.	Arizona State University-Main Campus	283
16.	Massachusetts Institute of Technology	460	42.	Princeton University	281
18.	Columbia University in the City of New York	457	43.	University of California-San Diego	278
19.	Cornell University-Endowed Colleges	449	44.	University of Connecticut	276
20.	Indiana University-Bloomington	440	44.	University of Massachusetts-Amherst	276
21.	Michigan State University	429	46.	Louisiana State University & A&M	275
22.	University of Pennsylvania	425	47.	Temple University	270
23.	University of North Carolina at Chapel Hill	424	48.	CUNY Graduate School & University Center	268
24.	University of Southern California	411	49.	University of Colorado at Boulder	267
25.	University of Arizona	403	50.	University of Tennessee-Knoxville	266

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX B: Trend Tables, 1990-2000

Appendix B includes the following two tables:

B-1: Number of Doctorate Recipients, by Subfield, 1990-2000

B-2: Number of Doctorate Recipients, by Sex, Race/Ethnicity, and Citizenship, 1990-2000

TABLE B-1: Table B-1 presents data for the most recent decade by subfield of doctorate. In general, the subfields correspond to the fields on the questionnaire's Specialties List located in the questionnaire at the back of the Summary Report; some subfields, however, do not appear on the current Specialties List because they are no longer included in the survey taxonomy. A dash (—) in a column indicates that the field was not on the Specialties List for that year.

Field groupings in this table may differ from those in reports published by Federal sponsors of the Survey of Earned Doctorates (SED); see inside the back cover of the Summary Report for a description of field groupings as reported in these tables. The "general" field categories—for example, "chemistry, general"—include individuals who either received the doctorate in the general subject area or did not indicate a particular specialty field. The "other" field categories—for example, "chemistry, other"—include individuals whose specified doctoral discipline was not among the specialty fields.

The eight tables in Appendix A present additional information on the most recent cohort of research doctorate recipients by field of doctorate.

TABLE B-2: Table B-2 displays, by sex and citizenship, data on the race/ethnicity of doctorate recipients for 1990-2000. Table B-2 contains three panels, each displayed on a separate page. The first panel includes all doctorates; the others disaggregate the data by sex.

Since 1982 respondents have been asked to first indicate whether or not they are Hispanic, and then check one of four racial group categories (American Indian, Asian, black, or white). In Table B-2, d*octorate recipients who reported Hispanic heritage, regardless of racial designation, are counted as Hispanic*. The remaining survey respondents are then counted in their respective racial groups. (Note: Doctorate recipients who checked the category "American Indian or Alaskan Native" are identified as American Indian in this report.)

Tables A-2 and A-4 in Appendix A present additional information on the most recent cohort of doctorate recipients by race/ethnicity.

APPENDIX TABLE B-1. Number of doctorate recipients, by subfield, 1990-2000

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
TOTAL ALL FIELDS	36,067	37,534	38,890	39,800	41,034	41,742	42,413	42,545	42,634	41,060	41,368
PHYSICAL SCIENCES	5,859	6,280	6,502	6,496	6,822	6,808	6,674	6,679	6,739	6,319	6,077
MATHEMATICS	892	1,039	1,058	1,146	1,118	1,190	1,122	1,123	1,177	1,083	1,048
Applied Mathematics	185	193	213	188	206	211	230	242	266	252	238
Algebra	39	72	69	84	78	82	78	78	75	84	82
Analysis & Functional Analysis	90	132	105	105	107	99	100	103	130	86	81
Geometry	42	66	45	44	35	45	72	70	54	65	59
Logic	19	23	28	19	29	35	18	23	18	23	19
Number Theory	26	30	25	42	37	35	42	48	46	50	40
Mathematical Statistics	157	206	217	228	205	205	178	181	204	174	194
Topology	50	57	58	54	38	51	55	62	65	65	50
Computing Theory & Practice	12	19	12	18	16	14	18	14	18	14	17
Operations Research	29	18	22	37	26	38	21	20	17	21	19
Mathematics, General	191	180	209	278	269	305	233	153	163	116	150
Mathematics, Other	52	45	55	51	72	72	79	131	124	133	99
COMPUTER SCIENCE	705	800	869	880	903	997	921	910	925	853	861
Computer Science	612	720	791	825	833	913	837	829	819	738	722
Information Sciences & Systems	93	80	78	55	70	84	84	81	106	115	139
PHYSICS AND ASTRONOMY	1,393	1,411	1,537	1,544	1,692	1,652	1,676	1,599	1,584	1,429	1,392
Astronomy	52	50	55	78	68	89	84	71	91	59	80
Astrophysics	76	75	79	69	78	84	108	127	116	100	107
Acoustics	21	13	18	27	20	18	19	19	18	18	10
Chem. & Atomic/Molecular	87	76	85	95	140	110	129	106	100	99	110
Electron	2	1	0	0	0	0	0	0	0	0	0
Elementary Particles	163	182	153	170	176	183	175	170	173	169	147
Fluids	17	14	17	19	12	18	21	24	26	23	10
Nuclear	73	66	86	82	90	91	67	106	92	78	74
Optics	78	85	94	96	104	98	129	123	104	97	117
Plasma & High-Temperature	42	58	65	62	79	46	48	39	55	49	38
Polymer	11	17	17	29	29	23	33	19	24	28	21
Solid State & Low-Temperature	306	372	408	336	388	371	364	328	313	307	279
Physics, General	323	247	297	340	343	355	323	256	191	226	225
Physics, Other	144	155	163	143	167	166	186	212	281	201	174
CHEMISTRY	2,100	2,194	2,214	2,137	2,257	2,162	2,148	2,147	2,216	2,132	1,990
Analytical	293	304	304	286	334	317	348	350	383	333	326
Inorganic	242	260	268	237	262	258	249	279	287	279	221
Nuclear	13	14	7	8	10	5	5	8	6	10	9
Organic	452	538	512	518	544	483	506	566	597	562	524
Medicinal/Pharmaceutical	48	83	69	99	102	96	96	105	114	131	107
Physical	325	364	398	336	334	338	300	334	279	310	271
Polymer	81	111	83	107	117	116	121	110	122	96	106
Theoretical	55	45	59	53	52	40	57	48	41	58	52
Chemistry, General	524	400	449	431	447	458	398	261	285	196	264
Chemistry, Other	67	75	85	82	55	51	72	86	101	159	110
EARTH, ATMOS., & MARINE SCI.	769	838	824	789	852	807	807	900	838	822	786
Atmospheric Physics & Chemistry	18	20	36	13	27	27	22	45	38	43	39
Atmospheric Dynamics	20	21	23	23	27	18	21	25	24	18	17
Meteorology	20	31	28	34	32	25	35	28	25	22	34
Atmos. Sci./Meteorology, General	23	28	27	22	37	44	33	36	22	33	36
Atmos. Sci./Meteorology, Other	2	10	6	7	6	18	14	15	18	10	17
Geology	166	192	166	197	194	186	162	165	171	157	124
Geochemistry	56	64	62	50	59	42	49	49	58	55	48
Geophysics & Seismology	91	117	108	101	106	93	101	108	106	100	89
Paleontology	21	24	25	21	17	20	14	23	23	15	31
Mineralogy, Petrology	26	36	29	9	21	19	23	19	14	14	8
Stratigraphy, Sedimentation	25	29	23	28	27	16	12	23	24	17	13
Geomorphology & Glacial Geology	14	18	12	16	13	11	11	26	20	18	14
Applied Geology	6	1	0	0	0	0	0	0	0	0	0
Geological & Related Sci., General	31	30	18	15	18	21	27	16	13	9	20
Geological & Related Sci., Other	28	33	31	17	24	22	22	17	40	35	18
Environmental Science	50	35	57	68	61	81	83	96	73	99	94
Hydrology & Water Resources	13	16	29	25	30	24	31	43	35	32	43
Oceanography	89	85	82	98	91	83	107	114	94	100	100
Marine Sciences	39	27	32	27	34	32	27	30	18	30	35
Misc. Physical Sci., Other	31	21	30	18	28	27	13	22	24	17	29
ENGINEERING	4,894	5,214	5,438	5,698	5,822	6,008	6,305	6,114	5,927	5,328	5,330
Aerospace, Aeronautic. & Astronautic.	192	207	234	228	230	252	287	273	243	206	215
Agricultural	101	83	84	86	89	73	104	79	74	59	80
Bioeng. & Biomedical	129	149	147	171	173	189	220	210	207	245	252
Ceramic Sciences	43	58	42	42	39	39	41	39	24	33	22
Chemical	581	621	607	624	630	602	681	662	668	576	620
Civil	505	509	540	583	602	572	599	593	587	505	482
Communications	35	21	30	22	33	29	32	33	40	38	42
Computer	131	178	175	167	202	189	208	227	210	205	172
Electrical, Electronics	1,110	1,206	1,278	1,354	1,438	1,513	1,500	1,461	1,346	1,234	1,330
Engineering Mechanics	111	113	132	128	132	108	105	93	86	68	57
Engineering Physics	15	23	25	21	17	17	37	24	15	28	26
Engineering Science	37	42	51	55	48	56	52	45	50	51	34
Environmental Health Engineering	48	66	54	61	82	84	98	63	63	78	78
Ind./Manufacturing	151	165	196	236	228	284	258	246	229	212	176

APPENDIX TABLE B-1. Number of doctorate recipients, by subfield, 1990-2000 (continued)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Materials Science	307	361	365	416	433	476	470	482	482	393	404
Mechanical	773	782	855	902	883	917	947	928	937	786	807
Metallurgical	90	70	78	77	67	73	61	60	59	43	25
Mining & Mineral	39	38	26	24	23	19	31	33	21	18	10
Naval Architecture, Marine Eng.	8	5	0	0	0	0	0	0	0	0	0
Nuclear	114	107	120	108	85	105	113	102	96	76	98
Ocean	17	21	21	24	29	21	26	34	29	16	18
Operations Research	46	76	56	56	47	48	74	74	62	67	51
Petroleum	49	28	54	52	42	48	52	51	48	45	44
Polymer/Plastics	48	42	64	61	53	58	65	54	59	52	62
Systems	51	48	37	57	51	47	47	49	68	42	34
Engineering, General	75	78	64	47	39	60	60	51	30	39	43
Engineering, Other	107	137	103	116	129	129	137	148	194	213	170
LIFE SCIENCES	6,605	6,933	7,115	7,395	7,739	7,917	8,255	8,324	8,538	8,101	8,529
BIOLOGICAL SCIENCES	4,328	4,650	4,799	5,092	5,203	5,375	5,723	5,786	5,843	5,581	5,855
Biochemistry	678	765	715	846	804	824	794	831	798	760	777
Biomedical Sciences	0	0	0	0	0	93	140	158	184	176	155
Biophysics	103	100	125	103	123	155	142	147	168	173	164
Biotechnology Research	0	0	0	8	14	4	6	11	12	19	14
Bacteriology	15	11	13	14	18	13	16	13	13	13	15
Plant Genetics	31	23	33	41	30	35	41	30	40	31	35
Plant Pathology	37	50	32	41	40	32	38	33	18	36	25
Plant Physiology	51	65	68	48	70	55	73	47	61	64	39
Botany, Other	104	106	107	106	117	102	106	91	113	67	92
Anatomy	70	77	75	76	66	64	47	50	36	33	40
Biometrics & Biostatistics	47	59	63	74	72	67	81	84	75	76	92
Cell Biology	145	149	188	231	237	236	233	251	299	264	337
Ecology	166	189	190	177	201	203	245	255	293	272	297
Developmental Biology/Embryology	22	37	48	57	62	64	96	115	127	108	111
Endocrinology	24	33	27	16	26	20	24	17	30	19	20
Entomology	147	138	139	114	123	121	136	124	138	114	137
Biological Immunology	153	177	181	169	161	190	238	214	245	223	238
Molecular Biology	413	481	527	582	598	617	651	772	736	715	705
Microbiology	335	372	377	433	423	426	444	410	383	382	383
Neuroscience	192	238	238	276	264	308	404	437	413	431	495
Nutritional Sciences	118	106	132	134	147	136	142	124	139	102	150
Parasitology	13	20	17	17	22	14	22	17	15	13	19
Toxicology	91	86	105	100	120	126	138	180	155	114	123
Human & Animal Genetics	153	160	142	172	203	202	212	217	197	216	225
Human & Animal Pathology	101	122	114	130	128	109	135	106	90	120	106
Human & Animal Pharmacology	244	266	279	274	259	278	316	300	255	254	267
Human & Animal Physiology	278	272	266	271	289	262	275	227	258	243	244
Zoology, Other	122	125	134	114	117	145	100	97	111	128	133
Biological Sciences, General	333	278	315	305	288	348	291	209	216	182	200
Biological Sciences, Other	142	148	159	164	161	126	138	219	228	225	218
HEALTH SCIENCES	956	1,041	1,112	1,197	1,296	1,330	1,324	1,422	1,501	1,404	1,569
Speech-Lang. Pathology & Audiology	93	90	82	98	95	106	94	88	95	86	106
Environmental Health	38	38	44	38	51	51	58	67	54	69	52
Health Systems/Services Admin.	0	0	0	35	53	62	60	66	82	82	58
Public Health	123	132	157	153	142	152	156	139	156	171	207
Epidemiology	102	115	106	120	168	153	149	151	166	160	190
Exercise Physiology/Sci., Kinesiology	0	0	0	0	87	118	105	105	129	104	130
Nursing	281	325	338	373	336	354	354	420	399	352	413
Pharmacy	116	115	160	146	148	144	145	142	156	137	164
Rehabilitation/Therapeutic Services	0	17	25	36	43	20	26	34	35	26	40
Veterinary Medicine	70	56	63	61	56	55	65	47	49	49	50
Health Sciences, General	36	28	30	38	41	35	22	45	17	32	50
Health Sciences, Other	117	125	105	99	78	80	90	118	183	136	129
AGRICULTURAL SCIENCES	1,321	1,242	1,204	1,106	1,240	1,212	1,208	1,116	1,194	1,116	1,085
Agricultural Economics	145	168	141	137	162	173	169	133	155	149	137
Agricultural Business and Management	2	1	0	1	0	3	2	1	2	2	5
Animal Breeding & Genetics	22	18	23	18	17	19	12	24	18	21	22
Animal Nutrition	54	57	41	52	58	50	54	55	45	48	46
Dairy Science	20	19	14	11	11	14	9	14	10	12	9
Poultry Science	17	13	22	18	21	11	12	9	11	8	9
Fisheries Science & Management	42	39	26	38	48	49	46	45	30	38	43
Animal Sciences, Other	90	92	97	74	86	85	90	62	60	71	73
Agronomy & Crop Science	143	117	123	104	143	114	110	77	97	108	70
Plant Breeding & Genetics	87	69	82	68	81	72	63	67	69	44	68
Plant Pathology	64	90	63	58	55	52	90	65	66	66	63
Plant Protection-Pest Management	4	2	0	0	0	0	0	0	0	0	0
Plant Sciences, Other	23	17	29	28	24	30	21	20	37	38	29
Food Distribution	0	0	0	0	1	0	0	0	0	0	0
Food Engineering	10	12	14	9	16	7	7	11	13	7	10
Food Sciences, Other	141	137	151	141	152	135	142	175	153	137	142
Soil Chemistry/Microbiology	27	24	24	26	21	27	29	32	27	29	28
Soil Sciences, Other	91	78	63	59	69	72	78	56	74	67	64
Horticulture Science	101	78	66	62	65	67	73	44	60	68	55
Forest Biology	27	17	29	16	20	24	19	22	20	14	22
Forest Engineering	2	2	2	3	0	4	0	13	2	1	3
Forest Management	14	22	16	17	17	20	22	21	27	17	13
Wood Sci. & Pulp/Paper Tech.	16	16	21	20	26	26	18	25	25	21	11
Conserv./Renewable Nat. Res.	16	19	9	13	21	24	13	17	25	25	19
Forestry & Related Sci., Other	62	45	62	55	59	71	56	50	69	49	54
Wildlife/Range Mgt	58	59	55	54	52	50	64	50	56	44	56
Agricultural Sciences, General	5	3	9	10	4	6	5	10	8	8	10
Agricultural Sciences, Other	38	28	23	14	11	7	4	18	35	30	26

APPENDIX TABLE B-1. Number of doctorate recipients, by subfield, 1990-2000 (continued)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
SOCIAL SCIENCES & PSYCHOLOGY	6,093	6,152	6,216	6,545	6,813	6,835	6,814	7,062	7,075	7,029	7,115
SOCIAL SCIENCES	2,812	2,902	2,963	3,125	3,234	3,206	3,323	3,484	3,399	3,370	3,492
Anthropology	324	341	320	342	384	375	396	434	425	462	446
Area Studies	22	24	33	36	34	27	28	10	14	11	14
Criminology	42	35	37	39	41	44	60	49	55	51	66
Demography/Population Studies	20	28	17	22	23	15	11	24	30	28	19
Economics	836	861	885	906	913	952	979	999	975	911	933
Econometrics	26	24	25	24	26	27	29	31	25	15	15
Geography	131	108	111	137	146	150	185	149	154	144	197
International Relations/Affairs	97	88	76	102	112	73	99	88	97	119	77
Political Science & Government	482	434	513	507	589	600	621	665	663	655	670
Public Policy Analysis	87	111	107	98	94	93	104	126	97	124	137
Sociology	428	465	495	513	525	540	516	577	549	543	615
Statistics	69	31	29	48	46	48	48	56	61	72	60
Urban Affairs/Studies	67	90	86	123	132	103	106	93	77	57	78
Social Sciences, General	23	36	33	32	21	35	26	26	30	25	39
Social Sciences, Other	176	225	186	196	148	124	135	157	147	153	126
PSYCHOLOGY	3,281	3,250	3,263	3,420	3,379	3,429	3,491	3,568	3,676	3,659	3,623
Clinical	1,337	1,305	1,309	1,373	1,285	1,291	1,325	1,267	1,344	1,442	1,357
Cognitive & Psycholinguistics	76	94	101	104	129	104	128	166	113	143	141
Comparative	8	7	2	5	8	4	3	6	6	11	7
Counseling	466	497	507	488	497	470	464	487	448	460	475
Developmental and Child	159	155	170	202	179	152	188	215	267	193	203
Human/Individual & Family Develop.	0	0	0	0	129	150	151	126	118	133	148
Experimental	143	142	154	143	139	151	128	145	149	137	133
Educational	98	110	91	91	69	74	92	81	81	88	97
Family & Marriage Counseling	0	0	0	0	0	57	52	64	51	55	54
Industrial & Organizational	126	142	138	159	137	155	162	187	189	158	188
Personality	20	13	17	22	19	16	24	26	25	18	23
Physiological/Psychobiology	46	45	55	85	93	92	80	77	92	86	89
Psychometrics	8	9	5	9	5	10	11	11	9	15	13
Quantitative	15	7	10	16	17	13	19	17	15	14	8
School	82	82	88	95	84	91	82	84	106	121	98
Social	145	147	139	125	153	155	170	181	186	178	209
Psychology, General	371	324	295	308	280	306	279	319	301	229	239
Psychology, Other	181	171	182	197	156	138	133	129	196	204	141
HUMANITIES	3,822	4,099	4,444	4,481	4,744	5,081	5,116	5,434	5,509	5,451	5,634
GENERAL HUMANITIES	2,412	2,642	2,879	2,852	3,103	3,208	3,367	3,563	3,608	3,648	3,781
History, American	211	251	277	269	310	344	355	372	408	417	442
History, Asian	0	0	0	0	0	43	54	54	70	68	51
History, European	151	127	176	182	180	185	187	245	230	234	243
History/Philosophy of Sci. & Tech.	26	27	28	37	27	41	37	36	43	49	42
History, General	111	121	102	116	140	148	101	82	86	78	103
History, Other	113	137	141	142	144	128	123	176	152	164	179
Classics	58	55	58	61	84	82	72	53	85	77	83
Comparative Literature	97	150	163	153	163	191	184	181	163	186	188
Linguistics	167	227	266	214	221	201	230	244	220	250	229
Speech & Rhetoric al Studies	38	86	98	111	142	139	155	138	169	150	143
Letters, General	19	17	18	18	22	43	28	23	22	19	55
Letters, Other	52	44	38	37	25	34	61	60	82	82	92
American Studies	72	92	81	101	88	94	115	84	100	98	113
Archeology	22	33	33	38	34	36	21	35	34	26	36
Art History/Criticism/Conservation	135	125	154	158	182	181	176	188	221	188	228
Music	572	587	641	613	685	713	699	726	694	764	749
Philosophy	243	285	279	274	302	296	369	447	410	387	383
Religion	219	187	231	257	252	248	317	303	327	334	350
Drama/Theater Arts	106	91	95	91	102	80	103	116	92	99	82
LANGUAGE AND LITERATURE	1,308	1,350	1,465	1,523	1,537	1,718	1,818	1,746	1,720	1,648	1,711
American Literature	229	253	291	293	296	327	314	408	389	371	480
English Language & Literature	567	599	612	665	647	752	699	686	688	651	610
French	123	100	124	137	129	151	142	150	137	148	143
German	78	71	96	105	87	93	88	82	106	90	83
Italian	25	32	20	19	32	35	24	23	33	20	18
Spanish	173	173	179	178	212	209	196	249	207	201	218
Russian	19	25	28	28	38	28	37	39	43	25	29
Slavic	7	14	15	13	10	16	11	9	15	17	14
Chinese	16	19	20	21	25	20	29	23	19	27	21
Japanese	9	7	12	11	12	7	10	19	11	10	18
Hebrew	14	11	20	15	10	11	12	7	8	4	11
Arabic	7	4	12	10	4	8	8	4	9	12	15
Other Language & Literature	41	42	36	36	55	61	50	47	55	72	73
OTHER HUMANITIES	102	107	100	106	104	135	131	125	181	156	172
Humanities, General	28	29	21	30	32	25	39	25	23	24	40
Humanities, Other	74	78	79	76	72	110	92	100	158	131	132
EDUCATION	6,510	6,454	6,677	6,689	6,708	6,849	6,772	6,572	6,568	6,545	6,420
RESEARCH & ADMINISTRATION	4,522	4,675	4,894	4,997	4,927	4,941	5,225	5,030	4,989	5,063	4,936
Curriculum & Instruction	839	807	900	856	819	896	896	916	885	992	968
Educational Admin. and Supervision	1,683	1,428	1,290	1,340	1,207	1,086	1,170	1,018	949	894	810
Educational Leadership	1	485	694	783	792	889	989	1,033	1,113	1,150	1,199

APPENDIX TABLE B-1. Number of doctorate recipients, by subfield, 1990-2000 (continued)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Educ./Instruct. Media Design	65	73	62	96	111	121	107	92	91	123	136
Educ. Stat./Research Methods	59	80	61	64	68	63	76	58	56	57	55
Educ. Assess., Test., & Meas.	40	32	45	23	28	19	32	30	35	39	45
Educational Psychology	323	323	348	290	311	297	309	360	327	296	278
School Psychology	87	90	88	86	97	71	114	116	112	108	137
Social/Phil. Found. of Educ.	88	109	101	109	140	130	125	136	129	125	135
Special Education	225	226	260	277	241	254	278	269	248	262	259
Counseling Educ./Couns. & Guidance	301	270	259	288	284	268	277	207	270	260	214
Higher Educ./ Evaluation & Research	424	344	381	357	428	467	481	505	431	463	438
Pre-elementary/Early Childhood	42	85	98	97	91	70	81	42	54	49	34
Elementary Education	110	73	73	65	71	61	46	56	62	59	53
Secondary Education	56	40	28	33	24	24	34	26	55	31	23
Adult & Continuing Education	211	210	208	233	215	235	210	184	172	153	150
TEACHING FIELDS	922	973	1,008	943	960	924	863	918	955	891	828
Agricultural Education	38	49	43	54	52	35	32	38	25	38	22
Art Education	44	28	46	38	33	39	41	30	46	47	31
Business Education	34	32	16	27	25	21	20	26	31	45	37
English Education	52	58	61	53	56	60	57	62	53	64	44
Foreign Languages Education	31	46	50	48	54	60	44	47	73	62	43
Health Education	95	78	96	83	97	99	90	58	70	58	71
Home Economics Education	10	21	12	14	11	15	13	13	8	10	14
Technical/Industrial Arts Education	17	13	11	16	20	15	11	19	30	21	21
Mathematics Education	65	73	62	69	74	92	100	93	115	101	91
Music Education	78	96	96	80	89	96	91	100	94	79	78
Nursing Education	24	18	29	19	24	18	23	21	14	22	11
Physical Education & Coaching	191	185	167	161	139	104	101	109	109	114	83
Reading Education	82	102	121	95	97	85	66	70	78	68	89
Science Education	72	72	73	73	85	73	95	77	109	58	60
Social Science Education	11	19	19	9	10	14	12	26	15	9	40
Speech Education	5	1	0	0	0	0	0	0	0	0	0
Technical Education	15	25	35	21	30	20	24	32	18	27	20
Trade & Industrial Education	18	17	11	24	24	13	12	16	14	14	12
Teacher Ed./Spec. Acad. & Voc., Other	40	40	58	59	40	65	30	81	55	54	61
OTHER EDUCATION	1,066	806	775	749	821	784	684	624	624	591	656
Education, General	535	428	443	411	484	429	353	338	234	199	255
Education, Other	531	378	332	338	337	355	331	286	390	392	401
PROFESSIONAL/OTHER FIELDS	2,284	2,402	2,498	2,496	2,586	2,664	2,477	2,365 [a]	2,271 [b]	2,286 [c]	2,263 [d]
BUSINESS AND MANAGEMENT	1,036	1,163	1,248	1,281	1,283	1,327	1,278	1,242	1,169	1,107	1,071
Accounting	172	172	190	183	179	168	156	150	154	153	111
Banking/Financial Support Services	134	172	172	170	134	163	114	69	83	74	72
Business Admin. & Management	277	204	241	324	319	340	393	425	347	316	325
Business/Managerial Economics	21	19	21	33	40	37	36	48	57	42	52
International Business	0	0	0	0	22	23	36	39	33	34	34
Mgmt. Inf. Sys./Business Data Proc.	0	72	103	102	117	111	94	100	88	83	85
Marketing Mgmt. & Research	120	134	139	166	167	153	153	153	142	127	140
Business Statistics	10	5	0	0	0	0	0	0	0	0	0
Operations Research	46	58	67	63	54	59	64	45	57	52	61
Organizational Behavior	64	72	81	73	102	100	108	121	103	100	99
Bus. Mgmt./Admin. Serv., General	70	123	112	87	87	92	67	28	36	49	36
Bus. Mgmt./Admin. Serv., Other	122	132	132	80	62	81	53	64	71	77	56
COMMUNICATIONS	323	332	330	321	371	380	389	332	373	379	389
Communications Research	87	72	45	33	40	40	60	51	52	50	53
Journalism	21	7	0	0	0	0	0	0	0	0	0
Mass Communications	0	68	85	117	156	121	137	117	142	153	153
Radio and Television	17	6	0	0	0	0	0	0	0	0	0
Communication Theory	0	25	47	41	45	53	37	40	48	47	39
Communications, General	88	70	76	69	68	77	81	74	82	69	78
Communications, Other	112	84	77	61	62	89	74	50	69	60	66
OTHER PROFESSIONAL FIELDS	858	836	880	867	891	931	773	772	720	772	797
Architectural Environmental Design	41	67	60	54	67	55	61	65	51	65	60
Home Economics	74	29	58	57	31	31	28	36	18	23	23
Law	34	23	20	29	33	37	26	27	31	37	41
Library Science	42	52	51	70	42	47	49	40	34	39	45
Parks/Recreation/Leisure/Fitness	0	0	0	44	37	54	29	24	38	29	45
Public Administration	88	107	108	117	135	128	103	95	104	119	102
Social Work	246	240	248	237	272	303	256	247	235	228	259
Theology/Religious Education	271	273	292	243	262	273	213	178	158	162	170
Professional Fields, General	3	3	1	1	1	1	2	4	0	9	3
Professional Fields, Other	59	42	42	15	11	2	6	56	51	83	49
OTHER FIELDS	67	71	40	27	41	26	39	19	9	28	1

NOTE: Dash (-) indicates that the field was not on the questionnaire's Specialties List that year. Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

[a] Includes 5 respondents with missing data for doctoral field.
[b] Includes 7 respondents with missing data for doctoral field.
[c] Includes 1 respondent with missing data for doctoral field.
[d] Includes 5 respondents with missing data for doctoral field.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE B-2a. Number of doctorate recipients, by sex, race/ethnicity, and citizenship, 1990-2000 (Total all doctorates)

	Year of Doctorate										
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
TOTAL ALL DOCTORATES[a]	36,067	37,534	38,890	39,800	41,034	41,742	42,413	42,545	42,634	41,060	41,368
U.S. Citizen	24,905	25,573	26,010	26,448	27,147	27,740	27,750	28,149	28,437	27,636	27,888
Permanent Visa	1,698	1,857	1,980	2,259	3,747	4,318	3,767	2,930	2,697	2,306	1,949
Temporary Visa	8,093	9,311	9,953	9,932	9,406	8,810	9,614	9,181	9,493	9,057	9,648
Unknown Citizenship	1,371	793	947	1,161	734	874	1,282	2,285	2,007	2,061	1,883
Total Known Race/Ethnicity	33,883	35,783	37,200	38,290	39,840	40,327	40,657	38,875	39,356	38,625	38,659
U.S. Citizen	24,531	25,087	25,658	26,216	26,894	27,433	27,402	27,051	27,512	27,190	27,300
Permanent Visa	1,637	1,796	1,906	2,225	3,699	4,274	3,734	2,867	2,610	2,268	1,889
Temporary Visa	7,558	8,789	9,536	9,675	9,115	8,545	9,371	8,839	9,086	8,797	9,354
Unknown Citizenship	157	111	100	174	132	75	150	118	148	372	116
American Indian[b]	98	132	152	121	148	148	190	166	190	217	169
U.S. Citizen	97	130	149	120	143	148	187	166	189	217	169
Permanent Visa[c]	0	2	0	0	0	0	1	0	0	0	0
Temporary Visa[c]	1	0	2	1	3	0	2	0	0	0	0
Unknown Citizenship	0	0	1	0	0	0	0	0	1	0	0
Asian[d]	6,293	7,528	8,291	8,674	9,369	9,708	9,830	9,008	8,580	8,025	8,110
U.S. Citizen	641	789	848	891	950	1,141	1,090	1,308	1,170	1,322	1,407
Permanent Visa	665	742	916	1,128	2,596	3,168	2,809	1,812	1,552	1,193	908
Temporary Visa	4,931	5,949	6,506	6,604	5,800	5,378	6,097	5,856	5,828	5,472	5,770
Unknown Citizenship	56	48	21	53	23	21	34	32	30	38	25
Black	1,354	1,466	1,434	1,615	1,683	1,823	1,836	1,774	1,913	2,071	2,123
U.S. Citizen	901	1,010	971	1,111	1,101	1,307	1,313	1,349	1,482	1,594	1,656
Permanent Visa	149	156	145	169	178	168	143	139	120	134	119
Temporary Visa	291	293	311	322	389	337	364	276	299	288	335
Unknown Citizenship	13	7	7	13	15	11	16	10	12	55	13
Hispanic	1,228	1,320	1,402	1,430	1,534	1,534	1,621	1,687	1,875	1,885	1,929
U.S. Citizen	721	732	778	833	884	912	947	1,055	1,203	1,151	1,157
Permanent Visa	116	136	131	139	148	142	158	136	121	139	122
Temporary Visa	386	446	482	454	502	472	512	484	542	560	644
Unknown Citizenship	5	6	11	4	2	8	6	12	9	35	6
White	24,910	25,337	25,921	26,450	27,108	27,114	27,180	26,240	26,798	26,427	26,328
U.S. Citizen	22,171	22,426	22,912	23,261	23,816	23,925	23,865	23,173	23,468	22,906	22,911
Permanent Visa	707	760	714	791	779	796	825	780	817	800	740
Temporary Visa	1,949	2,101	2,235	2,294	2,421	2,358	2,396	2,223	2,417	2,477	2,605
Unknown Citizenship	83	50	60	104	92	35	94	64	96	244	72
Unknown Race/Ethnicity	2,184	1,751	1,690	1,510	1,194	1,415	1,756	3,670	3,278	2,435	2,709
U.S. Citizen	374	486	352	232	253	307	348	1,098	925	446	588
Permanent Visa	61	61	74	34	48	44	33	63	87	40	60
Temporary Visa	535	522	417	257	291	265	243	342	407	260	294
Unknown Citizenship	1,214	682	847	987	602	799	1,132	2,167	1,859	1,689	1,767

[a] Total includes individuals who did not report sex.
[b] Includes Alaskan Native.
[c] In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.
[d] Includes Pacific Islander.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE B-2b. Number of doctorate recipients, by sex, race/ethnicity, and citizenship, 1990-2000 (Total men)

	Year of Doctorate										
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
TOTAL MEN	22,960	23,525	24,235	24,384	25,059	25,158	25,273	24,939	24,634	23,418	23,173
U.S. Citizen	14,165	14,385	14,518	14,512	14,732	14,964	14,707	15,041	14,869	14,372	14,107
Permanent Visa	1,189	1,223	1,290	1,468	2,636	2,908	2,485	1,834	1,682	1,378	1,137
Temporary Visa	6,632	7,506	7,946	7,835	7,306	6,841	7,389	6,963	7,005	6,630	6,839
Unknown Citizenship	974	411	481	569	385	445	692	1,101	1,098	1,038	1,090
Total Known Race/Ethnicity	21,342	22,356	23,168	23,534	24,324	24,296	24,247	22,993	22,715	22,041	21,557
U.S. Citizen	13,899	14,032	14,262	14,343	14,564	14,749	14,476	14,426	14,323	14,088	13,766
Permanent Visa	1,149	1,177	1,236	1,444	2,602	2,882	2,463	1,795	1,603	1,350	1,096
Temporary Visa	6,175	7,073	7,606	7,641	7,093	6,629	7,208	6,706	6,712	6,444	6,634
Unknown Citizenship	119	74	64	106	65	36	100	66	77	159	59
American Indian[a]	52	74	82	61	74	80	104	78	104	97	76
U.S. Citizen	52	74	82	60	71	80	103	78	104	97	76
Permanent Visa[b]	0	0	0	0	0	0	0	0	0	0	0
Temporary Visa[b]	0	0	0	1	3	0	1	0	0	0	0
Unknown Citizenship	0	0	0	0	0	0	0	0	0	0	0
Asian[c]	5,030	5,872	6,418	6,605	7,061	7,102	7,209	6,421	6,032	5,542	5,375
U.S. Citizen	427	482	531	552	590	667	615	747	647	772	761
Permanent Visa	481	489	604	732	1,877	2,198	1,787	1,142	985	712	504
Temporary Visa	4,077	4,865	5,265	5,282	4,578	4,222	4,782	4,513	4,384	4,031	4,093
Unknown Citizenship	45	36	18	39	18	15	25	19	16	27	17
Black	733	788	771	840	889	881	933	863	824	920	889
U.S. Citizen	351	421	396	441	411	490	534	533	526	602	568
Permanent Visa	128	131	123	138	142	125	107	108	87	92	82
Temporary Visa	243	232	246	251	329	261	286	213	204	211	233
Unknown Citizenship	11	4	6	10	7	5	6	9	7	15	6
Hispanic	760	807	860	874	886	909	927	978	1,059	981	1,057
U.S. Citizen	380	371	410	423	438	458	473	540	610	499	540
Permanent Visa	69	88	72	94	80	79	87	82	71	68	59
Temporary Visa	309	344	371	356	348	369	363	350	375	404	456
Unknown Citizenship	2	4	7	1	2	3	4	6	3	10	2
White	14,767	14,815	15,037	15,154	15,434	15,324	15,074	14,653	14,696	14,501	14,160
U.S. Citizen	12,689	12,684	12,843	12,867	13,054	13,054	12,751	12,528	12,436	12,118	11,821
Permanent Visa	471	469	437	480	503	480	482	463	460	478	453
Temporary Visa	1,546	1,632	1,724	1,751	1,839	1,777	1,776	1,630	1,749	1,798	1,852
Unknown Citizenship	61	30	33	56	38	13	65	32	51	107	34
Unknown Race/Ethnicity	1,618	1,169	1,067	850	735	862	1,026	1,946	1,919	1,377	1,616
U.S. Citizen	266	353	256	169	168	215	231	615	546	284	341
Permanent Visa	40	46	54	24	34	26	22	39	59	28	39
Temporary Visa	457	433	340	194	213	212	181	257	293	186	205
Unknown Citizenship	855	337	417	463	320	409	592	1,035	1,021	879	1,031

[a] Includes Alaskan Native.
[b] In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.
[c] Includes Pacific Islander.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE B-2c. Number of doctorate recipients, by sex, race/ethnicity, and citizenship, 1990-2000 (Total women)

	Year of Doctorate										
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
TOTAL WOMEN	13,106	13,873	14,436	15,121	15,820	16,414	16,944	17,246	17,834	17,464	18,121
U.S. Citizen	10,740	11,185	11,491	11,931	12,412	12,774	13,043	13,074	13,554	13,264	13,778
Permanent Visa	508	633	687	788	1,110	1,409	1,282	1,095	1,019	928	810
Temporary Visa	1,461	1,794	1,990	2,069	2,077	1,952	2,214	2,203	2,468	2,423	2,808
Unknown Citizenship	397	261	268	333	221	279	405	874	793	849	725
Total Known Race/Ethnicity	12,540	13,417	14,019	14,737	15,501	16,023	16,405	15,869	16,616	16,583	17,101
U.S. Citizen	10,632	11,053	11,396	11,871	12,327	12,684	12,926	12,622	13,186	13,102	13,534
Permanent Visa	487	619	669	779	1,096	1,391	1,271	1,071	999	916	791
Temporary Visa	1,383	1,708	1,920	2,021	2,014	1,910	2,159	2,124	2,361	2,352	2,720
Unknown Citizenship	38	37	34	66	64	38	49	52	70	213	56
American Indian[a]	46	58	70	60	72	68	86	88	86	120	93
U.S. Citizen	45	56	67	60	72	68	84	88	85	120	93
Permanent Visa[b]	0	2	0	0	0	0	1	0	0	0	0
Temporary Visa[b]	1	0	2	0	0	0	1	0	0	0	0
Unknown Citizenship	0	0	1	0	0	0	0	0	1	0	0
Asian[c]	1,282	1,648	1,862	2,055	2,298	2,599	2,616	2,580	2,532	2,482	2,735
U.S. Citizen	214	306	317	338	359	474	475	560	522	550	646
Permanent Visa	183	253	311	392	718	969	822	670	560	481	404
Temporary Visa	854	1,077	1,231	1,312	1,218	1,150	1,311	1,337	1,437	1,440	1,677
Unknown Citizenship	11	12	3	13	3	6	8	13	13	11	8
Black	621	678	663	773	792	942	903	911	1,087	1,151	1,234
U.S. Citizen	550	589	575	670	690	817	779	816	956	992	1,066
Permanent Visa	21	25	22	31	38	43	36	31	32	42	37
Temporary Visa	48	61	65	70	59	76	78	63	94	77	102
Unknown Citizenship	2	3	1	2	7	6	10	1	5	40	7
Hispanic	468	513	542	555	668	625	694	709	814	904	872
U.S. Citizen	341	361	368	410	446	454	474	515	592	652	617
Permanent Visa	47	48	59	45	68	63	69	54	50	71	63
Temporary Visa	77	102	111	97	156	103	149	134	166	156	188
Unknown Citizenship	3	2	4	3	0	5	2	6	6	25	4
White	10,143	10,520	10,882	11,294	11,671	11,789	12,106	11,581	12,097	11,926	12,167
U.S. Citizen	9,482	9,741	10,069	10,393	10,760	10,871	11,114	10,643	11,031	10,788	11,090
Permanent Visa	236	291	277	311	276	316	343	316	357	322	287
Temporary Visa	403	468	511	542	581	581	620	590	664	679	753
Unknown Citizenship	22	20	25	48	54	21	29	32	45	137	37
Unknown Race/Ethnicity	566	456	417	384	319	391	539	1,377	1,218	881	1,020
U.S. Citizen	108	132	95	60	85	90	117	452	368	162	244
Permanent Visa	21	14	18	9	14	18	11	24	20	12	19
Temporary Visa	78	86	70	48	63	42	55	79	107	71	88
Unknown Citizenship	359	224	234	267	157	241	356	822	723	636	669

[a] Includes Alaskan Native.
[b] In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.
[c] Includes Pacific Islander.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX C: Technical Notes

I. Survey Response Rates

Appendix Table C-1. Survey Response Rates[a]

Year	Self-Report Rate	Year	Self-Report Rate
1967	97.3	1984	95.1
1968	97.6	1985	94.8
1969	96.6	1986	93.5
1970	98.1	1987	93.1
1971	97.5	1988	92.9
1972	97.3	1989	92.3
1973	97.5	1990	93.6
1974	94.2	1991	94.6
1975	97.3	1992	95.1
1976	97.2	1993	94.7
1977	96.6	1994	94.6
1978	96.3	1995	94.1
1979	96.4	1996	92.9
1980	96.2	1997	91.4
1981	95.7	1998	91.9
1982	95.3	1999	91.9
1983	95.5	2000	91.9

[a] The rates for 1967-99 reflect late responses. The rate for 2000 may increase slightly in the next year if additional questionnaires are received after survey closure. Self-report rates for 1980-2000 were determined from the "source of response" indicator in the doctorate records. Because this indicator was not coded prior to 1980, survey forms for 1967-79 are assumed to be self-reported if "month signed" or "marital status" is present. "Marital status" is not available from sources other than the doctorate recipient.

As shown in the table above, 91.9 percent of 2000 U.S. research doctorate recipients completed survey forms. This percentage is what has been referred to as the "self-report" rate. The remaining doctorate recipients have either "skeletal" records containing only PHDINST, PHDFY, PHDCY, SEX, PHDMONTH, (and in private identifier files, Name) or "institution provided" records including the skeletal information above as well as information provided by the institution in "missing information rosters (MIRs)" where available.

It should be noted that the sex variable was not always available, even for survey respondents. Every effort was made to obtain this information for as many respondents as possible, but for a small percentage, this could not be done with confidence. Thus, you will notice that there are missing data for many of the tabulations involving sex in this year's report. Prior to 1997, whenever sex was missing, the data were assigned to "male." In 1997, it was decided to discontinue this practice. The tabulations involving sex for 1997 through 2000 exclude missing cases except where noted otherwise.

Wherever possible this report includes data from all Ph.D. records whether complete or skeletal; thus the reported total number of Ph.D. recipients for 2000 (41,368) includes both respondents and non-respondents. It should also be noted that, in keeping with the practice of earlier data collection cycles, counts for previous years were corrected by the addition of data from surveys received after the close of data collection for a given year.

A Comparison of Self-Reported and Institution-Supplied Data

So far, self-report rates have been discussed at the institution level. But is there a significant difference between respondents who complete questionnaires and those who are nonrespondents to the survey? One way to check is to compare the profiles of critical item data provided on survey forms with similar data ascertained from institution-supplied data provided for nonrespondents. Table C-2 compares these data on eight critical items. The table presents two types of data: the percentage of missing data for each critical item, by type of response; and the percentage-response breakdown for *non-missing* data for each critical item.

Table C-2. Profiles of respondents versus nonrespondents for critical item data, by source of response, 2000

Critical item (variable name)	Self-report (SELF)	Institution-provided (INST)	Difference (SELF-INST)
BIRTHYR*			
Missing data	*.86*	*11.2*	
Before 1970	74.3	81.3	-7.0
1970 and later	25.7	18.7	-7.0
SEX			
Missing data	*.01*	*.38*	
Male	56.1	53.4	2.7
Female	43.9	46.6	-2.7
CITIZ*			
Missing data	*.22*	*17.5*	
U.S. citizen	70.7	66.7	3.0
Permanent	4.9	5.4	-.5
Temporary	24.3	27.9	-3.6
CNTRYCIT			
Missing data	*.81*	*20.2*	
U.S.	71.2	68.9	2.3
Non-U.S.	28.8	31.1	-2.3
RACE* (U.S. citizens & permanent residents only)			
Missing data	*.68*	*12.7*	
American Indian	.58	.52	.06
Asian	7.8	8.9	-1.1
Black	5.9	10.0	-4.1
Hispanic	4.3	4.9	-0.6
White	81.0	74.3	6.7
Other	.88	1.4	-0.5
BAINST*			
Missing data	*2.7*	*83.8*	
U.S.	73.2	65.8	7.4
Non-U.S.	26.8	34.2	-7.4
BAYEAR			
Missing data	*3.1*	*90.9*	
Before 1992	67.7	68.1	-.4
1992-after	32.3	31.9	.4
PDLOC*			
Missing data	*1.9*	*57.0*	
U.S.	89.9	84.5	5.4
Non-U.S.	10.1	15.5	-5.4

*Significant at .05 level, chi-square test
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table C-2 presents the results of a chi-square test comparing self-reported cases and nonresponding cases where institutions supplied data on critical items. In general, it can be noted that the profile of nonrespondents was significantly different from the profile of respondents in five of the eight critical item variables. Nonrespondents appear to be slightly older than respondents. Nonrespondents are more likely to be non-U.S. citizens, non-white, graduates of non-U.S. bachelors' institutions and pursuing postdoctoral studies or employment outside the U.S. These findings should be considered suggestive only. The larger amount of missing data noted on BAINST, BAYEAR and PDLOC cautions against definitive conclusions.

II. Item Response Rates

The table on the following pages shows the response rates for each item in the Survey of Earned Doctorates for 1990 through 2000. The numbers and percentages shown in the tables and figures in the body of the summary report are based only on the number of research doctorate recipients who responded to the applicable survey items. For cross-tabulations, the response rate for a given tabulation will be no greater than the lowest response rate for the items involved in the tabulation.

For additional technical information on the Survey of Earned Doctorates, please contact

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II. ITEM RESPONSE RATES, 1990-2000

Appendix Table C-3. Item response rates, 1990-2000

Variable Name	Field	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999 (Prelim)	1999 (Adjusted)	2000 (Prelim)
PHDFICE	Ph.D. FICE Code	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NA	NA	NA	NA	NA
RACE[a]	Race/Ethnic Group (Recoded)	93.9	95.3	95.6	96.2	97.6	97.1	96.4	93.0	93.6	94.8	95.0	94.5
PHDENTRY	First Grad. Year in Ph.D. Instn.	NA	NA	NA	86.9	86.7	86.5	85.5	79.0	83.6	85.7	85.9	84.8
SRCE1ED[b]	Primary Source of Support (Edited)	78.1	77.6	69.7	66.2	72.4	74.9	87.9	87.8	88.5	89.8	89.9	90.0
PDWK1ED[c]	Primary Work Activity (Edited)	56.2	55.9	55.7	54.7	56.3	56.6	60.8	60.3	61.1	60.0	60.1	62.0
		(83.8)	(83.8)	(83.5)	(83.3)	(86.1)	(86.8)	(93.3)	(92.8)	(93.0)	(94.9)	(94.9)	(95.0)
PDWK2ED[c]	Secondary Work Activity (Edited)	39.5	39.5	37.4	36.7	38.2	38.4	48.5	51.7	52.2	49.8	49.9	51.5
		(58.9)	(59.3)	(56.0)	(55.8)	(58.4)	(58.8)	(74.4)	(79.6)	(79.7)	(78.8)	(78.8)	(78.7)
EDFATHER	Father's Education	90.8	92.3	93.1	92.7	92.7	92.3	91.4	89.4	89.8	90.3	90.4	90.4
EDMOTHER	Mother's Education	90.5	92.2	93.0	92.6	92.5	92.1	91.6	89.6	89.9	90.5	90.7	90.7
BIRTHYR	Year of Birth	96.6	98.2	97.7	97.3	98.2	97.5	96.8	92.8	92.7	94.9	95.0	95.0
BIRTHPL	Place of Birth	92.1	94.1	95.1	94.9	94.9	94.5	93.0	90.5	90.8	91.0	91.1	91.0
SEX	Sex	100.0	99.6	99.4	99.2	99.6	99.6	99.5	99.2	99.6	99.5	99.6	99.8
MARITAL	Marital Status	91.7	91.5	92.0	91.6	91.5	91.0	91.7	89.2	90.2	90.6	90.7	90.7
DEPENDS	Number of Dependents	90.0	89.5	89.8	89.8	89.7	89.4	89.5	88.2	88.7	88.9	89.1	89.0
CITIZ	Citizenship	96.2	97.9	97.6	97.1	98.2	97.9	97.0	94.6	95.3	94.8	95.0	95.4
CNTRYCIT[c]	Country of Citizenship	26.4	29.2	30.3	30.2	31.8	31.3	31.3	26.5	26.9	26.6	26.6	27.4
		(97.2)	(98.0)	(98.5)	(98.6)	(99.3)	(99.4)	(98.5)	(95.6)	(94.2)	(96.1)	(96.1)	(97.6)

NOTE: NA = not available.

[a] The percentage represents the race/ethnic groups conventionally reported by the Doctorate Data Project; multiple and "other" races are excluded.
[b] As of FY 1996, the percentage includes recipients who said they had no primary source of support.
[c] The percentages on the first line are based on the total doctoral cohort for a fiscal year. The percentages on the second line (enclosed in parentheses) are based on the number of non-U.S. citizens in that year.

Appendix Table C-3. Item response rates, 1990-2000 (continued)

Variable Name	Field	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999 (Prelim)	1999 (Adjusted)	2000 (Prelim)
RACERAW[d]	Race/Ethnic Group	93.9	95.3	95.6	96.2	97.7	97.2	96.5	93.0	93.6	94.8	95.0	94.5
HANDICAP[e]	Handicap Indic. (incl. "No" from 1989-present)	92.4	93.4	93.9	93.6	93.7	93.3	91.8	90.0	90.0	90.2	90.3	90.4
HSPLACE	Place of High School	90.8	93.5	94.5	94.0	93.9	93.5	92.2	90.1	90.8	91.2	91.3	91.4
HSYEAR	Year of H.S. Graduation	90.5	90.9	92.1	92.1	91.7	91.6	90.5	89.0	94.0	90.3	92.9	90.7
JRCOLL	Jr. Coll. Indic. (incl. "No")	90.8	92.0	92.7	92.9	92.5	92.4	90.6	91.4	91.8	91.6	91.8	91.8
REGNURSE[f]	Registered Nurse	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
CEPLACE	Place of College Entrance	90.8	91.8	92.7	92.8	92.3	92.1	90.6	82.5	90.4	90.4	90.6	89.5
CEYEAR	Year of College Entrance	90.1	91.3	92.2	91.7	91.5	91.3	89.1	82.6	88.7	88.9	89.0	86.9
BAINST	Baccalaureate Institution	95.7	96.5	96.4	96.3	96.6	95.8	94.9	89.0	90.6	91.8	91.9	90.5
BAFIELD	Field of Baccalaureate	91.0	92.3	92.4	91.9	91.6	90.9	89.3	82.7	84.2	84.3	84.5	86.2
BAYEAR	Year of Baccalaureate	95.0	95.5	96.0	95.7	96.2	95.5	94.7	88.1	90.1	91.6	91.7	89.8
BANONE[g]	No Baccalaureate/Master's	1.1	1.1	0.9	8.6[d]	9.1[d]	9.7[d]	11.4[d]	6.9[d]	8.1[d]	8.0[d]	8.0	2.7
GEYEAR	Year of Graduate Entrance	86.6	89.4	89.5	88.6	88.2	87.4	85.7	77.3	81.3	84.6	84.8	83.2
MAINST	Master's Institution	78.2	78.4	79.0	78.6	78.9	78.0	77.2	72.5	73.0	72.9	73.0	73.1
MAFIELD	Field of Master's	75.5	76.3	77.0	76.1	76.1	75.3	74.6	68.7	70.4	70.6	70.7	70.8
MAYEAR	Year of Master's	76.7	77.1	77.7	77.0	77.1	76.3	75.5	71.2	72.7	71.8	72.0	72.1

NOTE: NA = not available.

[d] The percentage represents the race/ethnic groups conventionally reported by the Doctorate Data Project; multiple and "other" races are excluded.
[e] The percentages from 1985-1988 represent the numbers of doctorate recipients with handicaps. Beginning in 1989, the response rates include doctorate recipients who reported "no" handicap. Note: The definition of "handicapped" was much more restrictive in 1990 and 1991.
[f] Because this field is not applicable to all doctorate recipients, the response rate will always be under 100%.
[g] Because this field is not applicable to all doctorate recipients, the response rate will always be under 100%. Note: "No Baccalaureate/Master's" represents only "no baccalaureate" from 1983 to 1992. Beginning in 1993, it indicates that the Ph.D. held no baccalaureate and/or master's degree.

Appendix Table C-3. Item response rates, 1990-2000 (continued)

Variable Name	Field	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999 (Prelim)	1999 (Adjusted)	2000 (Prelim)
PROFDEG[b]	Type of Professional Doctorate	1.3	1.6	1.6	1.6	1.7	1.8	1.9	1.9	1.2	2.0	2.0	2.2
PROFYEAR[b]	Year of Professional Doctorate	1.3	1.6	1.5	1.6	1.7	1.8	1.9	1.8	2.8	2.8	2.8	2.2
PHDINST	Doctorate Institution	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PHDFIELD	Field of Doctorate	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PHDCY	Calendar Year of Doctorate	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PHDMONTH	Month of Doctorate	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PHDFY	Fiscal Year of Doctorate	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PHDTYPE1	Type of Doctorate	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PHDTYPE2[b]	Applied Research Doctorate	2.6	2.3	2.4	2.4	2.7	2.5	2.2	1.0	1.0	1.4	1.4	1.4
TOCEBA[b]	Time Out CE-BA	88.5	89.7	90.5	89.7	89.7	88.9	88.8	82.7	82.9	83.8	83.9	84.3
TOBAGE[b]	Time Out BA-GE	86.6	89.5	89.6	88.6	88.2	87.4	85.7	77.3	81.3	84.6	84.7	83.2
TOGEMA[b]	Time Out GE-MA	72.2	73.3	74.0	73.1	73.1	72.0	70.5	61.7	63.9	66.2	66.3	65.6
TOMAPHD[b]	Time Out MA-Ph.D.	65.2	69.9	71.1	69.9	70.0	69.0	68.2	68.0	65.3	66.2	66.4	65.2
TOGEPHD	Time Out GE-Ph.D.	77.4	84.0	84.5	83.1	82.5	81.8	80.2	75.9	74.9	79.4	79.5	77.5
TICEPHD	Time In CE-Ph.D.	76.7	83.4	84.3	83.0	82.9	82.4	80.9	75.7	78.3	79.6	79.7	78.6
YEARSFT	Full-time Enrollment	83.1	73.9	75.7	75.7	75.2	74.5	77.1	82.6	89.7	90.2	90.3	90.4
YEARSPT	Part-time Enrollment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
YEARSOUT	Not Enrolled	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PHDDISS[i]	Field of Dissertation	NA	NA	65.0[b]	92.7	93.3	92.4	92.1	89.1	90.1	90.8	90.9	91.1
SRCEPRIM[j]	Primary Source of Support	75.8	77.7	69.7	68.1	72.4	74.9	87.9[c]	87.8	88.6	89.8	89.9	90.0
DEBTIND	Debt Indicator (incl. "No")	92.2	93.1	93.3	92.8	92.8	92.4	91.1	NA	NA	NA	NA	NA
PRESTAT	Predoctoral Status	92.4	93.5	93.5	93.1	93.0	92.6	91.8	88.2	90.0	90.6	90.8	91.0
PDOCSTAT	Postdoctoral Status	90.7	91.6	92.1	91.8	91.7	91.0	91.0	88.9	89.6	90.3	90.4	90.8
PDOCPLAN	Postdoctoral Plans	91.3	92.1	92.5	92.4	92.4	91.9	91.2	87.0	87.9	89.1	89.3	90.3

NOTE: NA = not available.

[b] Because this field is not applicable to all doctorate recipients, the response rate will always be under 100%.
[i] The percentage was low in 1992 because 28% of the doctorate recipients completed earlier survey forms that did not request field of dissertation.
[j] As of FY 1996, the percentage included recipients who said they had no primary source of support.

Appendix Table C-3. Item response rates, 1990-2000 (continued)

Variable Name	Field	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999 (Prelim)	1999 (Adjusted)	2000 (Prelim)
PDREASON	Reason for Postdoctoral Appointment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PDSTDFLD[k]	Postdoctoral Study Field	23.2	24.4	24.3	25.1	25.3	25.0	25.4	25.6	25.4	25.4	25.4	24.9
		(95.2)	(95.1)	(93.4)	(94.0)	(93.8)	(93.9)	(97.4)	(99.0)	(96.0)	(96.9)	(96.9)	(96.6)
PDSTDSUP[k]	Sources of Study Support	22.4	24.0	24.2	24.7	25.1	24.8	24.7	25.0	25.2	25.2	25.3	24.8
		(91.8)	(93.4)	(92.9)	(92.4)	(93.1)	(92.5)	(94.9)	(100.0)	(95.8)	(96.5)	(96.5)	(96.1)
PDEMPLOY[l]	Type of Employer	63.6	63.3	62.9	61.4	61.1	60.9	61.4	60.2	61.9	60.3	60.4	61.6
		(94.9)	(94.9)	(94.3)	(93.5)	(93.5)	(93.4)	(94.2)	(92.7)	(94.4)	(95.5)	(95.5)	(94.3)
PDWKPRIM[l]	Primary Work Activity	56.2	55.9	55.7	54.7	56.3	56.8	60.8	60.4	61.2	60.0	60.1	62.0
		(83.8)	(83.8)	(83.5)	(83.3)	(86.1)	(86.8)	(93.3)	(93.0)	(93.2)	(94.9)	(94.9)	(95.0)
PDWKSEC[l]	Secondary Work Activity	39.5	39.6	37.4	36.7	38.2	38.4	48.5	49.7	50.2	49.8	49.9	51.5
		(58.9)	(59.3)	(56.0)	(55.9)	(58.4)	(58.8)	(74.4)	(76.4)	(76.7)	(76.8)	(76.8)	(76.7)
PDEMPFLD[l]	Field of Employment	47.0	47.3	45.3	44.0	45.4	45.7	58.4	59.5	60.3	60.1	60.2	61.2
		(70.2)	(70.8)	(68.0)	(67.0)	(69.4)	(70.1)	(89.6)	(91.5)	(91.9)	(95.1)	(95.1)	(93.6)
PDCONSID	Postdoctoral Appointment Consideration	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PDDECISN	Decision Against Postdoc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PDUSFOR	Postdoctoral Location US or Foreign	NA	NA	NA	NA	94.6	94.2	92.7	91.4	90.3	91.9	92.0	92.0

NOTE: NA = not available.

[k] The percentages on the first line are based on the total doctoral cohort for a fiscal year. The percentages on the second line (enclosed in parentheses) are based on the number of recipients who reported plans for postdoctoral study.

[l] The percentages on the first line are based on the total doctoral cohort for a fiscal year. The percentages on the second line (enclosed in parentheses) are based on the number of recipients who reported plans for postdoctoral employment.

III. Derived Variables

The following derived variables deserve further explanation.

Postdoctoral Plans to Stay in the United States

Starting in 1997, the planned postdoctoral location of doctorate recipients was coded in a new variable called PDLOC using FIPS codes for U.S. states and territories and countries. Values of PDLOC less than 100 indicate a postdoctoral location in the United States.

Also beginning in 1997, a dichotomous variable, PDUSFOR, was created to index whether the planned postdoctoral location reported by the respondent was in the United States or in a foreign location.

For years prior to 1997, this variable is based on PDAFFIL. The first character of PDAFFIL flags whether the respondent's planned postdoctoral location is in the United States; a numeric character in this position indicates a United States location. Non-numeric values in the first position of PDAFFIL (except "R") indicate non-U.S. locations. A value of "R" for PDAFFIL signifies the respondent's refusal to provide information.

For the interested user, the following SAS code produces "USPLAN" as an index of plans to stay in the United States following the doctorate using PDAFFIL1 (a variable created using the first character of PDAFFIL).

```
USPLAN=2; /* Outside the U.S. */
if PDAFFIL1 in ("0","1","2","3","4","5","6","7","8","9")
   then USPLAN=1; /* U.S. */
if PDAFFIL1 eq "R" then USPLAN=.;
if PDAFFIL1 eq " " then USPLAN=.;
```

Firm Postdoctoral Plans

Postdoctoral plans are coded using the values of PDOCSTAT, which indicate that the doctorate recipient's postdoctoral plans were definite at the time the survey was completed. That is, codes 0, 1, or A on PDOCSTAT indicate that the respondent had definite postdoctoral plans, whereas codes 2, 3, and 4 indicate that the respondent was still seeking to determine postdoctoral placement.

The following is the SAS code used to derive FIRMPLAN from PDOCSTAT :

```
if PDOCSTAT in ("0","1","A") then FIRMPLAN=1;   /* Definite */
if PDOCSTAT in ("2","3","4") FIRMPLAN=2;   /* Seeking */
if PDOCSTAT eq " " then FIRMPLAN=.;
```

Firm Plans to Stay in the United States

This variable is derived from USPLAN and FIRMPLAN. A respondent is coded as having firm plans to stay in the United States if the reported postdoctoral location was in the United States and the reported postdoctoral plans were coded "definite."

The following is the SAS code that creates the variable FIRMUS from USPLAN and FIRMPLAN as described above.

```
FIRMUS=2;
if (USPLAN eq 1 and FIRMPLAN eq 1) then FIRMUS=1;
if USPLAN eq . or FIRMPLAN eq . then FIRMUS=.;
```

Time to Doctorate

Total time to degree (TTD): TTD measures the total elapsed time between the baccalaureate and the doctorate (including time not enrolled in school). TTD can be computed only for individuals whose baccalaureate year is known. Baccalaureate year is often obtained from commencement programs or doctorate institutions when not reported by the recipient. *Months are now included in the computation (see note below).*

Registered time to degree (RTD): RTD gauges the time in attendance at colleges and universities between receipt of the baccalaureate and the doctorate. Enrollment may include years of attendance not related to a recipient's doctoral program. RTD can only be computed for individuals who provided all years of college attendance after the baccalaureate. *Months are now included in the computation (see note below).*

Note about medians: The method of computing medians, beginning with *Summary Report 1994*, is as follows. Months (of birth, baccalaureate, and doctorate) are included in the calculations whenever available; if months are missing, only years are used in the calculations. (However, medians are not computed for years prior to 1969 because doctorate month is unavailable for all doctorate recipients.) Medians presented in previous summary reports were based only on years. Some medians would be the same regardless of the method of computation, but the new method generally computes slightly different results. While differences are small (usually one- or two-tenths of a year), readers should consider these differences when comparing medians presented in the report with those in earlier reports.

IV. Changes to the 2000 SED

Citizenship

In 2000, a new category was again used for the variable CITIZ to identify non-U.S. citizens for whom visa status was unknown. The new code frame for the data is as follows:

Code	Citizenship Category
0	U.S. Native
1	U.S. Naturalized Citizen
2	Non-U.S. Immigrant (Permanent Resident)
3	Non-U.S. Non-Immigrant (Temporary Resident)
4	Non-U.S., Visa Status Unknown
Blank	Missing/Citizenship Unknown

In 2000, a logical assignment to code 4 was made if all follow-up attempts for missing citizenship were unsuccessful. The assignment was made for 1997, 1998, 1999, and 2000 records if three out of four variables – BIRTHPL, HSPLACE, EDPLACE, PDUSFOR – were non-U.S. locations. For the purposes of the tabulations in this report, code 4 was combined with code 3. This is consistent with what was done in previous rounds and seems well justified by an examination of the data. However, the existence of this new code will allow the data user to exclude the cases for which visa status is unknown if desired. One should keep in mind that the number of cases in this group (code 4) is not sufficient to warrant analysis as a separate group (n=342).

To match the numbers in this report, use the following code before analyzing citizenship:

```
/*RECODE CITIZ 4 */
IF (CITIZ eq '4') THEN CITIZ='3';
```

Birthplace, Country of Citizenship, and Postdoctoral Location

This year, recognizing the unification of Hong Kong and the People's Republic of China, data for respondents reporting values for Birthplace, Country of Citizenship, and Postdoctoral Location separately for these two locations are combined and tabulated as the People's Republic of China.

APPENDIX D

Survey of Earned Doctorates Questionnaire
Academic Year 2000

Please print your name in full:

First Name	Middle Name	Last Name	Suffix (e.g., Jr.)

Cross reference: Birth name or former name legally changed

Survey of Earned Doctorates

July 1, 1999 to June 30, 2000

Conducted by
The National Opinion Research Center at the University of Chicago
for
The National Science Foundation
The National Institutes of Health
The National Endowment for the Humanities
The U.S. Department of Education
The U.S. Department of Agriculture

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. ALL INFORMATION YOU PROVIDE WILL BE TREATED AS CONFIDENTIAL and used only for research or statistical purposes by your doctoral institution, the survey sponsors, their contractors, and collaborating researchers for the purpose of analyzing data, preparing scientific reports and articles, and selecting samples for a limited number of carefully defined follow-up studies. Your social security number is also solicited under the NSF Act of 1950, as amended. Providing it is also voluntary. It is used for survey quality control, program evaluation, and for matching with other databases. Any information publicly released (such as statistical summaries) will be in a form that does not personally identify you. Your response is voluntary and failure to provide some or all of the requested information will not in any way adversely affect you.

The time needed to complete this form varies according to individual circumstances, but the average time is estimated to be 20 minutes. If you have comments regarding this time estimate, you may write to the National Science Foundation, 4201 Wilson Blvd., Arlington, VA 22230, Attention: NSF Reports Clearance Officer.

OMB No. 3145-0019
Approval Expires 6/30/01

NATIONAL SCIENCE FOUNDATION
4201 WILSON BOULEVARD
ARLINGTON, VIRGINIA 22230

To the Doctorate Recipient:

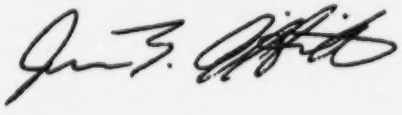
Congratulations on earning a doctoral degree! This is an important accomplishment for you. Your accomplishment is also significant for both this nation and others, as the new knowledge generated by research doctorates enhances the quality of life in this country and throughout the world. Because of the importance of persons earning research doctorates, several Federal agencies—listed on the cover—sponsor this Survey of Earned Doctorates.

The basic purpose of this survey is to gather objective data about doctoral graduates. These data are important in improving graduate education both at your home institution and beyond. Often, decisions made by governmental and private agencies to develop new programs, or to support present ones, are based in part on the data developed from this survey.

This form is distributed by the Graduate Deans and is filled out by all persons who have completed the requirements for a research doctoral degree. Please print your name on the cover if you have not already done so, and then complete this questionnaire and return it to the Graduate Dean. The confidentiality of the information you provide is carefully protected.

On behalf of the sponsoring Federal agencies, I thank you for your participation in this survey.

Best wishes,



Jeanne E. Griffith
Director, Division of Science Resources Studies

INSTRUCTIONS

Thank you for taking the time to complete this important questionnaire. Directions are provided for each question. Because not all questions will apply to everyone, you may be asked to skip certain questions.

- If you have not already done so, please print your name on the front cover.
- You may use either a pen or pencil.
- When answering questions that require marking a box, please use an "X."
- If you need to change an answer, please make sure that your old answer is either completely erased or clearly crossed out.
- On pages 8 and 9 (inside the back cover) is a Specialties List for classifying your field(s) of specialization in Questions A2, A10, B5, and B9.

Thanks again for your help; we really appreciate it.

PART A - Education

A1. What is the title of your dissertation?

☐ *Please mark (X) this box if the title below refers to a performance, project report or a musical or literary composition required instead of a dissertation*

Title _____

_____

_____

_____

_____

A2. Using the Specialties List (pages 8-9), please write the name and number of the field of your dissertation research.

Name of field _____

Number of field ___

A3. After receiving your first bachelor's degree (or equivalent), and including the period spent on your dissertation, how many years were you a full-time student?

___ Years (whole numbers)

A4. Please check the category that most fully describes your employment or study status during the year immediately before the award of the doctorate.

Mark (X) one

0 ☐ Full-time employed → *GO to A5*
1 ☐ Held fellowship
2 ☐ Held assistantship
3 ☐ Part-time employed — *SKIP to A6*
4 ☐ Not employed
5 ☐ Other - *Specify*

_____

A5. *(IF FULL-TIME EMPLOYED)* What type of position did you hold?

Mark (X) one

6 ☐ College or university, faculty
7 ☐ College or university, non-faculty
8 ☐ Elementary or secondary school, teaching
9 ☐ Elementary or secondary school, non-teaching
11 ☐ Industry or business
12 ☐ Other - *Specify*

_____

A6. In what state or country was the high school/secondary school that you last attended?

State (if U.S.)

_____

OR

Country (if not U.S.)

_____

A7. When did you graduate from high school/ secondary school?

Month ___ 19 Year ___

A8. Please name the department (or interdisciplinary committee, center, institute, etc.) of the university that supervised your doctoral program.

☐ *Mark (X) box if none*

_____

_____
Department/Committee/Center/Institute/Program

A9. Please name the school or college within the university that supervised your doctoral program.

☐ *Mark (X) box if not applicable*

_____

_____
School or College within University

A10. Please list below, chronologically, all colleges (including 2-year) and graduate institutions you have attended and each degree earned (if any). Be sure to give the years attended for ALL institutions attended. Include your doctoral institution(s) and degree at the end.

☐ Mark (X) box if bachelor's degree (or equivalent) was never received.

☐ Mark (X) box if master's degree (or equivalent) was never received.

EXAMPLE Institution and Location	Years Attended		Field of Study (Use Specialties List, pages 8-9)		Degree (if any)		
						Granted	
Institution / Branch or City / State or Province / Country (if not U.S.)	From	To	Field Name	Number	Title	Mo.	Yr.
Indian Institute of Technology / Madras / India	88	90	Mechanical Engineering	345	—	—	—
Institution / Branch or City / State or Province / Country (if not U.S.)	From	To	Field Name	Number	Title	Mo.	Yr.
University of California / Berkeley / CA	90	92	Mechanical Engineering	345	B.S.	6	92

Institution and Location	Years Attended		Field of Study (Use Specialties List, pages 8-9)		Degree (if any)		
						Granted	
Institution / Branch or City / State or Province / Country (if not U.S.)	From	To	Field Name	Number	Title	Mo.	Yr.
Institution / Branch or City / State or Province / Country (if not U.S.)	From	To	Field Name	Number	Title	Mo.	Yr.
Institution / Branch or City / State or Province / Country (if not U.S.)	From	To	Field Name	Number	Title	Mo.	Yr.
Institution / Branch or City / State or Province / Country (if not U.S.)	From	To	Field Name	Number	Title	Mo.	Yr.
Institution / Branch or City / State or Province / Country (if not U.S.)	From	To	Field Name	Number	Title	Mo.	Yr.
Institution / Branch or City / State or Province / Country (if not U.S.)	From	To	Field Name	Number	Title	Mo.	Yr.

If you have attended more than six institutions of higher education, please continue this list on the back cover. Be sure to include your doctoral institution.

A11. Which of the following were sources of money to cover living and/or educational expenses during your doctoral programs?

Mark (X) Yes or No for each	Yes	No	Don't Know
a. Loans (from any source)	1 ☐	2 ☐	☐
b. Foreign (non-U.S.) support	1 ☐	2 ☐	☐
c. Fellowship, scholarship	1 ☐	2 ☐	☐
d. Dissertation grant	1 ☐	2 ☐	☐
e. Teaching assistantship	1 ☐	2 ☐	☐
f. Research assistantship	1 ☐	2 ☐	☐
g. Traineeship	1 ☐	2 ☐	☐
h. Internship or residency	1 ☐	2 ☐	☐
i. Personal savings	1 ☐	2 ☐	☐
j. Other personal earnings during graduate school	1 ☐	2 ☐	☐
k. Spouse's, significant other's, or family earnings or savings	1 ☐	2 ☐	☐
l. Employer reimbursement/assistance	1 ☐	2 ☐	☐
m. Other - *Specify* ↴	1 ☐	2 ☐	☐

A12. Which TWO sources listed in A11 gave you the most support?

Enter letters of primary and secondary sources

1. ____ Primary source of support

☐ *Mark (X) if no primary source*

2. ____ Secondary source of support

☐ *Mark (X) if no secondary source*

A13. When you receive your doctoral degree, how much money will you owe that is directly related to your undergraduate and/or graduate education (tuition and fees, living expenses and supplies, transportation to and from school)?

0 ☐ None
1 ☐ $5,000 or less
2 ☐ $5,001 - $10,000
3 ☐ $10,001 - $15,000
4 ☐ $15,001 - $20,000
5 ☐ $20,001 - $25,000
6 ☐ $25,001 - $30,000
7 ☐ $30,001 or more

PART B - Postgraduation Plans

B1. How definite are your immediate postgraduate plans?

Mark (X) one

0 ☐ Am returning to, or continuing in, predoctoral employment
1 ☐ Have signed contract or made definite commitment for other work or study
→ *GO to B2, page 5*

2 ☐ Am negotiating with one or more specific organizations
3 ☐ Am seeking position but have no specific prospects
4 ☐ Other - *Specify* ↴
SKIP to B3, page 5

B2. Please name the organization and geographic location where you will work or study.

Name

City | State (if U.S.) | Country (if not U.S.)

SKIP to B4

B3. In what state or country do you intend to live after graduation?

Mark (X) one

0 ☐ in U.S. → State

1 ☐ not in U.S. → Country

B4. What best describes your immediate postgraduate plans?

Mark (X) one

0 ☐ Postdoctoral fellowship
1 ☐ Postdoctoral research associateship
2 ☐ Traineeship
3 ☐ Other study - *Specify*

4 ☐ Employment (other than 0,1,2,3)
5 ☐ Military service
6 ☐ Other - *Specify*

SKIP to B7

B5. Please use the Specialties List (pages 8-9) to enter the name and number of your postdoctoral field.

Name of field

Number of field

B6. What will be the main source of financial support for your postdoctoral study/research?

Mark (X) one

0 ☐ U.S. Government
1 ☐ College or university
2 ☐ Private foundation
3 ☐ Nonprofit, other than private foundation
4 ☐ Other - *Specify*

6 ☐ Unknown

SKIP to C1, page 6

B7. For what type of employer will you be working?

Mark (X) one

EDUCATION
a ☐ U.S. 4-year college or university other than medical school
b ☐ U.S. medical school
c ☐ U.S. junior or community college
d ☐ Elementary or secondary school
e ☐ Foreign institution

GOVERNMENT
f ☐ Foreign government
g ☐ U.S. federal government
h ☐ U.S. state government
i ☐ U.S. local government

PRIVATE SECTOR
j ☐ Nonprofit organization
k ☐ Industry or business
l ☐ Self-employed

OTHER
m ☐ Other - *Specify*

B8. From the list below, please indicate what your primary and secondary work activities will be by entering the numbers of your selections in the appropriate boxes:

Enter numbers from below:

a. Primary Activity

b. Secondary Activity

0 Research and development
1 Teaching
2 Administration
3 Professional services to individuals
5 Other - *Specify*

B9. Please use the Specialties List (pages 8-9) to enter the name and number of the field in which you will be working.

Name of field

Number of field

PART C - Background Information

C1. Are you -

1 ☐ Male
2 ☐ Female

C2. What is your marital status?

Mark (X) one

1 ☐ Married
2 ☐ Living in a marriage - like relationship
3 ☐ Widowed
4 ☐ Separated/divorced
5 ☐ Never married

C3. Not including yourself, how many dependents do you have - that is, how many others receive at least one half of their support from you?

☐☐ Number

C4. What is the highest educational attainment of your mother and father?

Mark (X) one for each parent

	a. Mother	b. Father
	↓	↓
Less than high school/ secondary school	1 ☐	1 ☐
High-school/secondary-school graduate	2 ☐	2 ☐
Some college	3 ☐	3 ☐
Bachelor's degree	4 ☐	4 ☐
Master's degree	5 ☐	5 ☐
Professional degree	6 ☐	6 ☐
Doctoral degree	7 ☐	7 ☐

C5. What is your place of birth?

State (if U.S.)

OR

Country (if not U.S.)

C6. What is your date of birth?

Month ☐☐ Day ☐☐ 19 Year ☐☐

C7. What is your citizenship status?

Mark (X) one

U.S. Citizen:

0 ☐ Native Born
1 ☐ Naturalized → ***SKIP to C9***

Non-U.S. Citizen:

2 ☐ With a Permanent U.S. Resident Visa
3 ☐ With a Temporary U.S. Visa

C8. ***(IF A NON-U.S. CITIZEN)*** **Of which country are you a citizen?**

(Specify country of present citizenship)

C9. Are you a person with a disability?

1 ☐ Yes
2 ☐ No → ***SKIP to C11***

C10. ***(IF YES)*** **Which of the following categories describes your disability?**

1 ☐ Visual
2 ☐ Orthopedic (mobility)
3 ☐ Auditory (hearing)
4 ☐ Vocal
5 ☐ Other - *Specify*

C11. Are you Hispanic?

0 ☐ Yes → ***GO to C12, page 7***
1 ☐ No → ***SKIP to C13, page 7***

C12. *(IF YES TO C11)* **Which of the following describes your Hispanic origin or descent?**

0 ☐ Mexican American
1 ☐ Puerto Rican
2 ☐ Other Hispanic - *Specify*

C13. What is your racial background?

Mark (X) one

0 ☐ American Indian or Alaskan Native
1 ☐ Asian or Pacific Islander
2 ☐ Black
3 ☐ White

C14. Please fill in your U.S. Social Security Number.

C15. In case we need to clarify some of the information you have provided, please list a telephone number and e-mail address (if available) where you can be reached.

Daytime telephone _____

Evening telephone _____

E-mail address _____

_____

C16. Because we are interested in how education relates to employment and career development over time, we may recontact you in the future. To assist us, please provide your current address below as well as the name, address, and telephone number of one person who is likely to know where you can always be reached. (Do not include someone who lives in your immediate household.) As with all other information in this questionnaire, complete confidentiality will be provided.

Current Address:

Number Street

City State Country Zipcode or Postal Code

Contact Person:

Name

Number Street

City State Country Zipcode or Postal Code

Phone Number (including area or country code) E-mail Address

C17. Please sign and date.

Signature Date

☐ **Mark (X) box if you would like a summary of the results of this survey (available as funding permits).**

Results of the Survey of Earned Doctorates can be found on the National Science Foundation's World Wide Web page at http://www.nsf.gov/sbe/srs/stats.htm

Please use the back cover to make any additional comments you may have about this survey.

Thank you for completing the questionnaire. Please return it to the GRADUATE DEAN for forwarding to Survey of Earned Doctorates, National Opinion Research Center at the University of Chicago, 1525 East 55th Street, Chicago, IL 60615. Should you need to call us, our toll free number is 1-800-248-8649.

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SPECIALTIES LIST

INSTRUCTIONS: The following field listing is to be used in responding to items A2, A10, B5, and B9. If you choose a field marked with an asterisk (*), please write in your field of specialization in the space provided in those items.

AGRICULTURAL SCIENCES
000 Agricultural Economics
002 Agricultural Business & Mgmt.
005 Animal Breeding & Genetics
010 Animal Nutrition
012 Dairy Science
014 Poultry Science
055 Fisheries Sci. & Management
019 Animal Sciences, Other*
020 Agronomy & Crop Science
025 Plant Breeding & Genetics
030 Plant Pathology (See also 120)
039 Plant Sciences, Other*
043 Food Engineering
044 Food Sciences, Other*
046 Soil Chemistry/Microbiology
049 Soil Sciences, Other*
050 Horticulture Science
066 Forest Biology
068 Forest Engineering
070 Forest Management
072 Wood Sci. & Pulp/Paper Tech.
074 Conserv./Renewable Natural Res.
079 Forestry & Related Sci., Other*
080 Wildlife/Range Management
098 Agricultural Sci., General
099 Agricultural Sci., Other*

BIOLOGICAL SCIENCES
100 Biochemistry
103 Biomedical Sciences
105 Biophysics
107 Biotechnology Research
110 Bacteriology
115 Plant Genetics
120 Plant Pathology (See also 030)
125 Plant Physiology
129 Botany, Other*
130 Anatomy
133 Biometrics & Biostatistics
136 Cell Biology (See also 154)
139 Ecology
142 Developmental Bio./Embryology
145 Endocrinology
148 Entomology
151 Biological Immunology
154 Molecular Biology
157 Microbiology
160 Neuroscience
163 Nutritional Sciences
166 Parasitology
169 Toxicology
170 Genetics, Human & Animal
175 Pathology, Human & Animal (See also 120)
180 Pharmacology, Human & Animal
185 Physiology, Human & Animal
189 Zoology, Other*
198 Biological Sciences, General
199 Biological Sciences, Other*

HEALTH SCIENCES
200 Speech-Lang. Pathology & Audiology
210 Environmental Health
212 Health Systems/Service Admin.
215 Public Health
220 Epidemiology (See also 133)
222 Exercise Physiology/ Sci., Kinesiology
230 Nursing
240 Pharmacy
245 Rehabilitation/Therapeutic Services
250 Veterinary Medicine
298 Health Sciences, General
299 Health Sciences, Other*

ENGINEERING
300 Aerospace, Aeronaut. & Astronaut.
303 Agricultural
306 Bioengineering & Biomedical
309 Ceramic Sciences
312 Chemical
315 Civil
318 Communications
321 Computer
324 Electrical & Electronics
327 Engineering Mechanics
330 Engineering Physics
333 Engineering Science
336 Environmental Health Engineering
339 Industrial & Manufacturing
342 Materials Science
345 Mechanical
348 Metallurgical
351 Mining & Mineral
357 Nuclear
360 Ocean
363 Operations Research (See also 465, 930)
366 Petroleum
369 Polymer & Plastics
372 Systems
398 Engineering, General
399 Engineering, Other*

COMPUTER AND INFORMATION SCIENCES
400 Computer Science
410 Information Science & Systems*

MATHEMATICS
420 Applied Mathematics
425 Algebra
430 Analysis & Functional Analysis
435 Geometry
440 Logic (See also 785)
445 Number Theory
450 Mathematical Statistics
455 Topology
460 Computing Theory & Practice
465 Operations Research (See also 363, 930)
498 Mathematics, General
499 Mathematics, Other*

PHYSICAL SCIENCES

Astronomy
500 Astronomy
505 Astrophysics

Atmospheric Sci. and Meteorology
510 Atmospheric Physics & Chemistry
512 Atmospheric Dynamics
514 Meteorology
518 Atmos. Sci./Meteorol., General
519 Atmos. Sci./Meteorol., Other*

Chemistry
520 Analytical
522 Inorganic
524 Nuclear
526 Organic
528 Medicinal/Pharmaceutical
530 Physical
532 Polymer
534 Theoretical
538 Chemistry, General
539 Chemistry, Other* (See 100 Biochemistry)

Geological & Related Sciences
540 Geology
542 Geochemistry
544 Geophysics & Seismology
546 Paleontology
548 Mineralogy & Petrology
550 Stratigraphy & Sedimentation
552 Geomorphology & Glacial Geology
558 Geolog. & Related Sci., General
559 Geolog. & Related Sci., Other*

Physics
560 Acoustics
561 Chemical & Atomic/Molecular
564 Elementary Particle
566 Fluids
568 Nuclear
569 Optics
570 Plasma & High-Temperature
572 Polymer

SPECIALTIES LIST (continued)

574 Solid State & Low-Temperature
578 Physics, General
579 Physics, Other*

Miscellaneous Physical Sciences
580 Environmental Science
585 Hydrology & Water Resources
590 Oceanography
595 Marine Sciences
599 Misc. Physical Sciences, Other*

PSYCHOLOGY
600 Clinical
603 Cognitive & Psycholinguistics
606 Comparative
609 Counseling
612 Developmental & Child
613 Human/Indiv. & Family Devlpmt.
615 Experimental
618 Educational (See also 822)
620 Family & Marriage Counseling
621 Indust. & Organiz. (See also 935)
624 Personality
627 Physiological/Psychobiology
630 Psychometrics
633 Quantitative
636 School (See also 825)
639 Social
648 Psychology, General
649 Psychology, Other*

SOCIAL SCIENCES
650 Anthropology
652 Area Studies
658 Criminology
662 Demography/Population Studies
666 Economics
668 Econometrics
670 Geography
674 International Relations/Affairs
678 Political Sci. & Government
682 Public Policy Analysis
686 Sociology
690 Statistics (See also 450)
694 Urban Affairs/Studies
698 Social Sciences, General
699 Social Sciences, Other*

HUMANITIES

History
700 History, American
703 History, Asian
705 History, European
710 History/Philosophy of Sci. & Tech.
718 History, General
719 History, Other*

Letters
720 Classics
723 Comparative Literature
729 Linguistics
732 Literature, American
733 Literature, English
734 English Language
736 Speech & Rhetorical Studies
738 Letters, General
739 Letters, Other*

Foreign Languages and Literature
740 French
743 German
746 Italian
749 Spanish
752 Russian
755 Slavic (other than Russian)
758 Chinese
762 Japanese
765 Hebrew
768 Arabic
769 Other Languages & Literature*

Other Humanities
770 American Studies
773 Archeology
776 Art History/Criticism/Conserv.
780 Music
785 Philosophy (See also 440)
790 Religion (See also 984)
795 Drama/Theater Arts
798 Humanities, General
799 Humanities, Other*

EDUCATION
800 Curriculum & Instruction
805 Educational Admin. & Supervision
807 Educational Leadership
810 Educ./Instruct. Media Design
815 Educ. Stat./Research Methods
820 Educ. Assess./Test./Meas.
822 Educ. Psychology (See also 618)
825 School Psychology (See also 636)
830 Social/Phil. Found. of Education
835 Special Education
840 Couns. Educ./Couns. & Guid. Serv.
845 Higher Education/Eval. & Research

Teacher Education
850 Pre-elementary/Early Childhood
852 Elementary
856 Secondary
858 Adult & Continuing

Teaching Fields
860 Agricultural Education
861 Art Education
862 Business Education
864 English Education
866 Foreign Languages Education
868 Health Education
870 Home Economics Education
872 Tech. & Indust. Arts Education
874 Mathematics Education
876 Music Education
878 Nursing Education
880 Physical Education & Coaching
882 Reading Education
884 Science Education
885 Social Science Education
887 Technical Education
888 Trade & Industrial Education
889 Teacher Educ., Specific Acad. & Voc. Prog., Other*

Other Education
898 Education, General
899 Education, Other*

PROFESSIONAL FIELDS

Business Management and Administrative Services
900 Accounting
905 Banking/Financial Support Serv.
910 Business Admin. & Management
915 Business/Managerial Economics
916 International Business
917 Mgmt. Info. Sys./Bus. Data Proc.
920 Marketing Management & Research
930 Operations Research (See also 363, 465)
935 Organiz. Behavior (See also 621)
938 Bus. Mgmt./Admin. Serv., Gen.
939 Bus. Mgmt./Admin. Serv., Other*

Communications
940 Communications Research
947 Mass Communications
957 Communication Theory
958 Communications, General
959 Communications, Other* (See also 736)

Other Professional Fields
960 Architec. Environ. Design
964 Home Economics
968 Law
972 Library Science
974 Parks/Rec./Leisure/Fitness
976 Public Administration
980 Social Work
984 Theol./Religious Education (See also 790)
988 Professional Fields, General
989 Professional Fields, Other*

OTHER FIELDS*
999 Other

Comments About This Survey

Please return this questionnaire to your GRADUATE DEAN for forwarding to Survey of Earned Doctorates, National Opinion Research Center at the University of Chicago, 1525 East 55th Street, Chicago, IL 60615.
Should you need to call us, our toll free number is 1-800-248-8649.

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APPENDIX E

Field Classification and Research Degree Titles

130

APPENDIX E: Field Classification and Research Degree Titles

The appendix tables present data according to the following field classifications. Appendix Tables A-1 and A-2 and Appendix Table B-1 display all subfields that are on the survey Specialties List. Appendix Tables A-4, A-5, and A-6 show data by seven broad fields only. Appendix Tables A-3 and A-7 include the additional field groupings indicated below.

SCIENCES

Physical Sciences (400-599)
- Physics and Astronomy (500 -505, 560-579)
- Chemistry (520-539)
- Earth, Atmospheric, and Marine Sciences (510-519, 540-559, 590-599)
- Mathematics (420-499)
- Computer Sciences (400410)

} Combined in Table A -7

Engineering (300-399)

Life Sciences (000-299)
- Biological Sciences (100 -199)
  - Biochemistry (100)
  - Other Biological Sciences (103 -199)
- Health Sciences (200-299)
- Agricultural Sciences (000 -099)

Social Sciences (600-699)
- Psychology (600-649)
- Economics and Econometrics (666, 668)
- Anthropology and Sociology (650, 686)
- Political Science and International Relations (674,678)
- Other Social Sciences (652-662, 670, 672, 682, 690-699)

} Combined in Table A -7

NONSCIENCES

Humanities (700-799)
- History (700-719)
- English and American Language and Literature (732 -734)
- Foreign Languages and Literature (740-769)
- Other Humanities (720-729, 736-739, 770-799)

} Combined in Table A -7

Education (800-899)

Professional and Other Fields (900-999)
- Business and Management (900 -939)
- Other Professional Fields (940 -989)
- Other Fields (999)

NOTE: Doctorate recipients indicate their fields of specialty. Their choices may differ from departmental names.

TITLES OF RESEARCH DEGREES INCLUDED IN THE SURVEY OF EARNED DOCTORATES

DA/DAT	Doctor of Arts/Arts in Teaching	DMM	Doctor of Music Ministry
DArch	Doctor of Architecture	DMSc	Doctor of Medical Science
DAS	Doctor of Applied Science	DNSc	Doctor of Nursing Science
DBA	Doctor of Business Administration	DPA	Doctor of Public Administration
DChem	Doctor of Chemistry	DPE	Doctor of Physical Education
DCJ	Doctor of Criminal Justice	DPH	Doctor of Public Health
DCL	Doctor of Comparative Law/Civil Law	DPS	Doctor of Professional Studies
DCrim	Doctor of Criminology	DrDES	Doctor of Design
DED	Doctor of Environmental Design	DRec/DR	Doctor of Recreation
DEng	Doctor of Engineering	DSc/ScD	Doctor of Science
DEnv	Doctor of Environment	DScD	Doctor of Science in Dentistry
DESc/ScDE	Doctor of Engineering Science	DScH	Doctor of Science and Hygiene
DF	Doctor of Forestry	DScVM	Doctor of Science in Veterinary Medicine
DFA	Doctor of Fine Arts	DSM	Doctor of Sacred Music
DGS	Doctor of Geological Science	DSSc	Doctor of Social Science
DHL	Doctor of Hebrew Literature/Letters	DSW	Doctor of Social Work
DHS	Doctor of Health and Safety	EdD	Doctor of Education
DHS	Doctor of Hebrew Studies	JCD	Doctor of Canon Law
DIT	Doctor of Industrial Technology	JSD	Doctor of Juristic Science
DLS	Doctor of Library Science	LScD	Doctor of Science of Law
DM	Doctor of Music	PhD	Doctor of Philosophy
DMA	Doctor of Musical Arts	RhD	Doctor of Rehabilitation
DME	Doctor of Musical Education	SJD	Doctor of Juridical Science
DML	Doctor of Modern Languages	ThD	Doctor of Theology

NSF Publications from the Doctorate Data Project

DATA BRIEFS	ISSUE BRIEFS	REPORTS
Healthy Economy Yields Even Lower Unemployment Rate for Doctoral Scientists and Engineers	Academic Employment of Recent Science and Engineering Doctorate Holders	Science and Engineering Doctorate Awards: 2000
Doctorate Awards Declining in Some Science and Engineering Fields	What's Happening in the Labor Market for Recent Science and Engineering Ph.D. Recipients?	Science and Engineering Doctorates: 1960-91
Despite Increases, Women and Minorities Still Underrepresented in Undergraduate Science and Engineering Education	Is the Gender Gap in Unemployment Disappearing?	Characteristics of Doctoral Scientists and Engineers in the U.S.: 1997
Doctoral Awards Increase in S&E Overall, But Computer Science Declines for First Time	Employment Preferences and Outcomes of Recent Science and Engineering Doctorate Holders in the Labor Market	Trend Tables on Doctoral Scientists and Engineers in the U.S.: 1993-97 (Web only)
Employment of Scientists and Engineers Reaches 3.2 Million in 1995	International Mobility of Scientists and Engineers to the United States – Brain Drain or Brain Circulation	Who is Unemployed? Factors Affecting Unemployment Among Individuals with Doctoral Degrees in Science and Engineering
Number of Doctoral Scientists and Engineers Grows by 6% Between 1993 &1995	What is the Debt Burden of New Science and Engineering Ph.D.'s?	Science and Engineering State Profiles: 1999
Data sources and publications sources:	Are Forms of Financial Support and Employment Choices of Recent Science and Engineering Ph.D.'s Related?	Doctoral Scientists and Engineers in the U.S.: 1997 Profile Tables (on request)
These publications contain data from 1) the annual Survey of Earned Doctorates(a universe survey on the education of research doctorates) or	Does the Educational Debt Burden of Science and Engineering Doctorates Differ by Race/Ethnicity and Sex?	Modes of Financial Support in the Graduate Education of S&E Doctorate Recipients
2) the biennial Survey of Doctorate Recipients (a longitudinal sample survey of workforce characteristics).	Degrees and Occupations in Engineering: How Do They Diverge?	Statistical Profiles of Foreign Doctoral Recipients in Science and Engineering: Plans to Stay in the United States
Complete electronic information on these surveys and publications may be obtained on the web at: www.nsf.gov/sbe/stats.htm.	Has the Use of Postdocs Changed?	Women, Minorities, and Persons with Disabilities in Science and Engineering: 2000
	How Much Does the U.S. Rely on Immigrant Engineers?	Science and Engineering Degrees: 1966-98
Written reports may be ordered online (www.nsf.gov/home/orderpub.htm) or by calling 301-947-2722.	What Follows Postdoctorate Experience? Employment Patterns of 1993 Postdocs in 1995	Science and Engineering Degrees, by Race/Ethnicity of Recipients: 1990-98
For further information please contact Susan T. Hill, Director, Doctorate Data Project, sthill@nsf.gov.	How Large is the Gap in Salaries of Male and Female Engineers?	SESTAT: A Tool for Studying Scientists and Engineers in the United States

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